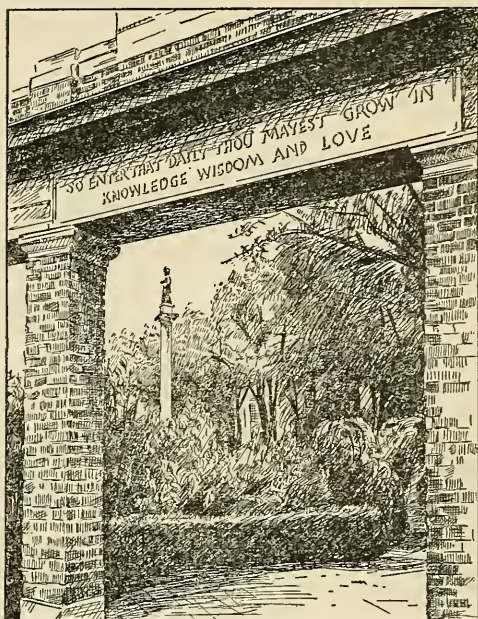


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Ohio University

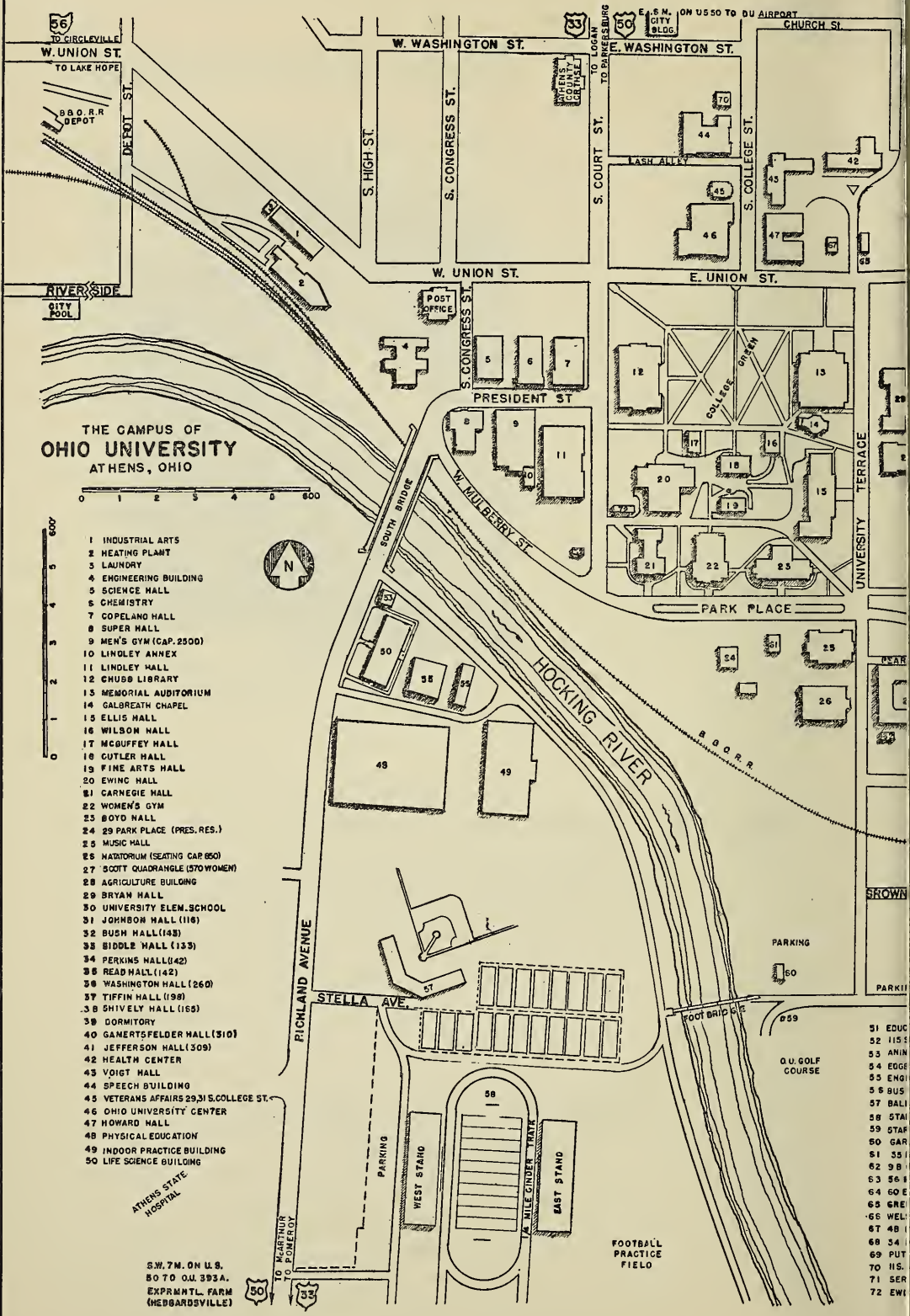


A GATEWAY TO OPPORTUNITY

1804 • OHIO'S OLDEST UNIVERSITY • 1958

One Hundred Fifty-Four Years of Distinguished
Educational Service to the State and Nation

*See inside of map folder for identification
of pictures in Bulletin*



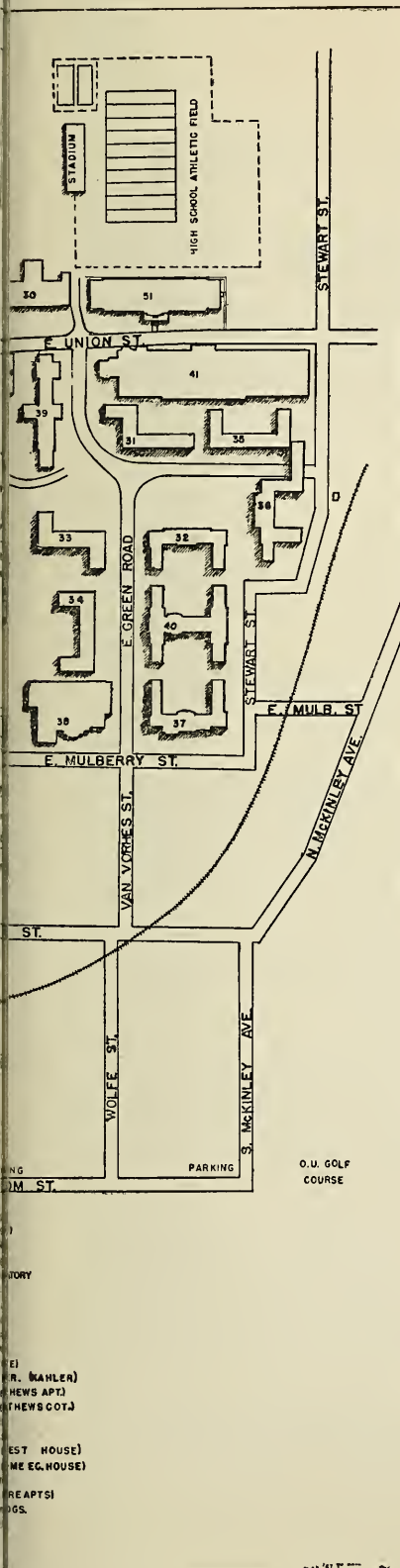
THE CAMPUS OF
OHIO UNIVERSITY
ATHENS, OHIO

- 1 INDUSTRIAL ARTS
- 2 HEATING PLANT
- 3 LAUNDRY
- 4 ENGINEERING BUILDING
- 5 SCIENCE HALL
- 6 CHEMISTRY
- 7 COPELAND HALL
- 8 SUPER HALL
- 9 MEN'S GYM (CAP. 2500)
- 10 LINDLEY ANNEX
- 11 LINDLEY HALL
- 12 CHUBB LIBRARY
- 13 MEMORIAL AUDITORIUM
- 14 GALBREATH CHAPEL
- 15 ELLIS HALL
- 16 WILSON HALL
- 17 MCBUFFEY HALL
- 18 CUTLER HALL
- 19 FINE ARTS HALL
- 20 EWING HALL
- 21 CARNEGIE HALL
- 22 WOMEN'S GYM
- 23 BOYD HALL
- 24 29 PARK PLACE (PRES. RES.)
- 25 MUSIC HALL
- 26 HATATORIUM (SEATING CAP 800)
- 27 SCOTT QUADRANGLE (570 WOMEN)
- 28 AGRICULTURE BUILDING
- 29 BRYAN HALL
- 30 UNIVERSITY ELEM. SCHOOL
- 31 JOHNSON HALL (116)
- 32 BUSH HALL (143)
- 33 BIDDLE HALL (133)
- 34 PERKINS HALL (142)
- 35 READ HALL (142)
- 36 WASHINGTON HALL (260)
- 37 TIFFIN HALL (198)
- 38 SHIVELY HALL (163)
- 39 DORMITORY
- 40 GAMERTSFELDER HALL (310)
- 41 JEFFERSON HALL (309)
- 42 HEALTH CENTER
- 43 VOIGT HALL
- 44 SPEECH BUILDING
- 45 VETERANS AFFAIRS 29, 31 S. COLLEGE ST.
- 46 OHIO UNIVERSITY CENTER
- 47 HOWARD HALL
- 48 PHYSICAL EDUCATION
- 49 INDOOR PRACTICE BUILDING
- 50 LIFE SCIENCE BUILDING

S.W. 7 M. ON U.S.
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EXPERIMENTAL FARM
(HEDGARDSVILLE)

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- 52 EWI

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To the Prospective Student

Ohio University, established by an act of the Legislature of the State of Ohio in 1804, is but a year younger than the state itself. Those who planned its founding were members of the original Ohio Company of Associates who came from New England and understood well the supreme importance of higher education. Through more than a century and a half the University has grown into a complex organization of seven colleges, five schools, a number of Branches, and other major divisions. Year-round study opportunities are provided, and programs leading to undergraduate and graduate degrees, including the doctorate, are available.

The University is coeducational. It is fully accredited, and is constantly improving its facilities and its instructional services to afford the best possible educational opportunities. Because it is supported by the state, the costs of attendance are lower than at most universities of similar high standards.

Ohio University offers an extensive program of recreational activities and intramural sports for all students. In inter-collegiate competition its varsity teams consistently rank high in the Mid-American Conference.

There are on the campus over 150 student organizations in which participation is encouraged as a valuable aid in developing leadership and civic responsibility. Students sit as active members on several committees concerned with the government of the university and the regulation of campus life.

The university and the Athens community present many cultural advantages. There are frequent and varied professional and student concerts, plays in the fine University Theatre, art exhibits, lectures, and other programs of general or special interest.

Qualified men have the opportunity for military training in Army and Air Force Tactics, Organization, and Administration. Upon completion of the university and the Reserve Officers Training Corps requirements they may be offered commissions as second lieutenants in the U. S. Army Reserve or the U. S. Air Force Reserve.

Ohio University is a friendly university. The faculty and administration strive to give students an education and to make life as pleasant for them as possible while they are doing it. With more than 7000 students on its compact, residential campus, Ohio University is large enough to sustain a true university atmosphere but not so large as to endanger the personal relationship that should exist between every student and his University.

The University welcomes the serious consideration of all who are giving thought to the preparation they need to live a rich and effective life.

CHAPTER XXVII.

An Act, establishing an University
in the town of Athens.

WHEREAS institutions for the liberal education of youth, are essential to the progress of arts and sciences, important to morality, virtue and religion, friendly to the peace, order and prosperity of society, and honorable to the government that encourages and patronises them: Therefore,

Sec. 1. *BE it enacted by the general assembly of the state of Ohio,* That there shall be an university instituted and established in the town of Athens, in the ninth township of the fourteenth range of townships, within the limits of the tract of land purchased by the Ohio Company of Associates, by the name and style of the "Ohio University," for the instruction of youth in all the various branches of liberal arts and sciences, for the promotion of good education, virtue, religion and morality, and for conferring all the degrees and literary honors granted in similar institutions.

Sec. 2. *And be it further enacted,* That there shall be and forever remain in the said university, a body politic and corporate, by



O H I O

UNIVERSITY BULLETIN



For The Biennium

1958 • 1960

ATHENS, OHIO

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OHIO UNIVERSITY BULLETIN

Vol. LV

JANUARY, 1958

Number 1

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1958-1959

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Inclusive						
Vacation Dates:						
Thanksgiving,						
Noon Nov. 26 to						
Noon Dec. 1						
Christmas,						
Dec. 17 to Jan. 5						
at noon,						
Spring, Noon						
Mar. 25 to Noon						
April 1,						

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Inclusive						
Vacation Dates:						
Thanksgiving,						
Noon Nov. 25 to						
Noon Nov. 30						
Christmas,						
Dec. 17 to Jan. 4						
at noon,						
Spring, Noon						
April 13 to Noon						
April 20.						

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THE UNIVERSITY CALENDAR FOR 1958-1959

THE 1958 SUMMER SESSION

First term June 16 to July 18; second term July 21 to August 22. For complete announcements see the Summer Session Bulletin.

PRECOLLEGE COUNSELING

A one-day testing and counseling program recommended for all new freshmen. Freshmen come to the campus for one day in July.

FIRST SEMESTER 1958-1959

1958

Sept.	13	Sat.	Opening of Freshman Week.
Sept.	17	Wed.	Registration for all students at time specified on registration time card.
Sept.	18	Thur.	Classes begin.
Sept.	29	Mon.	Last day for registering for the semester. Last day for graduate student to apply for admission to candidacy.
Oct.	4	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct.	6	Mon.	Last day for filing application for graduation on January 31.
Oct.	11	Sat.	Last day for partial refund of fees to students who withdraw.
Oct.	16	Thur.	English proficiency test in evening.
Oct.	25	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Oct.	30	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Nov.	4	Tues.	
	to		
Nov.	8	Sat.	Counseling period for University College students.
Nov.	8	Sat.	Last day for University College student to withdraw from a course.
Nov.	26	Wed.	Thanksgiving recess begins at 12:00 noon.

Dec.	1	Mon.	Classes resume at 12:00 noon.
Dec.	4	Thur.	University College twelve-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	5	Fri	Advising of degree college students for second semester; classes dismissed.
Dec.	9	Tues.	
Dec.	13	Sat.	Counseling period for University College students; second semester schedules are prepared.
Dec.	12	Fri.	Last day for all master's degree candidates to take comprehensive examination on major course work. Last day for master's degree candidates to present thesis in form for final typing to Thesis Director for approval.
Dec. 1959	16	Tues.	Christmas recess begins after last class.
Jan.	5	Mon.	Classes resume at 12:00 noon.
Jan.	21	Wed.	Last day of classes.
Jan.	22	Thur.	Reading and review day. Last day for master's degree candidates to take oral examination on thesis.
Jan.	23	Fri.	Examinations begin.
Jan.	26	Mon.	Theses due in library and abstracts due in Graduate College office.
Jan.	28	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Jan.	29	Thur.	Examinations end.
Jan.	31	Sat.	Semester closes; commencement; activities for new second semester students begin.

SECOND SEMESTER 1958-1959

Feb.	2	Mon.	Semester opens; counseling and advising.
Feb.	3	Tues.	Registration.
Feb.	4	Wed.	Classes begin.
Feb.	16	Mon.	Last day for registering for the semester. Last day for graduate student to apply for admission to candidacy.
Feb.	21	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.

Feb.	23	Mon.	Last day for filing application for graduation on June 7.
Feb.	28	Sat.	Last day for partial refund of fees to students who withdraw.
Mar.	12	Thur.	University College six-weeks' grades due in Registrar's office by 4:00 p.m.
Mar.	14	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	17 to Mar. 21	Tues. Sat.	Counseling period for University College students.
Mar.	19	Thur.	English proficiency test in evening.
Mar.	25	Wed.	Spring recess begins at 12:00 noon.
Mar.	28	Sat.	Last day for University College student to withdraw from a course.
Apr.	1	Wed.	Classes resume at 12:00 noon.
Apr.	28	Tues.	Last day for master's degree candidates to present thesis in form for final typing to Thesis Director for approval.
Apr.	30	Thur.	University College thirteen-weeks' grades due in Registrar's office by 4:00 p.m.
May	5 to May 9	Tues. Sat.	Counseling period for University College students.
May	7	Thur.	Last day for all master's degree candidates to take comprehensive examination on major course work.
May	26	Tues.	Last day for master's degree candidates to take oral examination on thesis.
May	27	Wed.	Reading and review day; counseling and advising for September.
May	28	Thur.	Examinations begin.
May	30	Sat.	Memorial Day holiday.
June	1	Mon.	Theses due in library and abstracts due in Graduate College office.
June	3	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June	5	Fri.	Examinations end.
June	7	Sun.	Commencement.

THE UNIVERSITY CALENDAR FOR 1959-1960

THE 1959 SUMMER SESSION

First term June 15 to July 17; second term July 20 to August 21.
For complete announcements see the Summer Session Bulletin.

PRECOLLEGE COUNSELING

A one-day testing and counseling program recommended for all new freshmen. Freshmen come to the campus for one day in July.

FIRST SEMESTER 1959-1960

1959

Sept.	12	Sat.	Opening of Freshman Week.
Sept.	16	Wed.	Registration for all students at time specified on registration time card.
Sept.	17	Thur.	Classes begin.
Sept.	28	Mon.	Last day for registering for the semester. Last day for graduate student to apply for admission to candidacy.
Oct.	3	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct.	5	Mon.	Last day for filing application for graduation on January 30.
Oct.	10	Sat.	Last day for partial refund to fees to students who withdraw.
Oct.	15	Thur.	English proficiency test in evening.
Oct.	24	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Oct.	29	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Nov.	3	Tues.	Counseling period for University College students.
Nov.	to 7	Sat.	
Nov.	7	Sat.	Last day for University College student to withdraw from a course.
Nov.	25	Wed.	Thanksgiving recess begins at 12:00 noon.
Nov.	30	Mon.	Classes resume at 12:00 noon.

Dec.	3	Thur.	University College twelve-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	4	Fri.	Advising of degree college students for second semester; classes dismissed.
Dec.	8	Tues.	
Dec.	12	Sat.	Counseling period for University College students; second semester schedules are prepared.
Dec.	11	Fri.	Last day for all master's degree candidates to take comprehensive examination on major course work.
Dec.	14	Mon.	Last day for master's degree candidates to present thesis in form for final typing to Thesis Director for approval.
Dec. 1960	16	Wed.	Christmas recess begins after last class.
Jan.	4	Mon.	Classes resume at 12:00 noon.
Jan.	20	Wed.	Last day of classes.
Jan.	21	Thur.	Reading and review day. Last day for master's degree candidates to take oral examination on thesis.
Jan.	22	Fri.	Examinations begin.
Jan.	25	Mon.	Theses due in library and abstracts due in Graduate College office.
Jan.	27	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Jan.	28	Thur.	Examinations end.
Jan.	30	Sat.	Semester closes; commencement; activities for new second semester students begin.

SECOND SEMESTER 1959-1960

Feb.	1	Mon.	Semester opens; counseling and advising.
Feb.	2	Tues.	Registration.
Feb.	3	Wed.	Classes begin.
Feb.	15	Mon.	Last day for registering for the semester. Last day for graduate student to apply for admission to candidacy.
Feb.	20	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.

Feb.	22	Mon.	Last day for filing application for graduation on June 5.
Feb.	27	Sat.	Last day for partial refund of fees to students who withdraw.
Mar.	12	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	17	Thur.	English proficiency test in evening.
Mar.	17	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Mar.	22	Tues.	Counseling period for University College students.
Mar.	26	Sat.	
Mar.	26	Sat.	Last day for University College student to withdraw from a course.
Apr.	13	Wed.	Spring recess begins at 12:00 noon.
Apr.	20	Wed.	Classes resume at 12:00 noon.
Apr.	27	Wed.	Last day for master's degree candidates to present thesis in form for final typing to Thesis Director for approval.
Apr.	28	Thur.	University College thirteen-week's grades due in Registrar's office by 4:00 p.m.
May	3	Tues.	Counseling period for University College students.
May	7	Sat.	
May	5	Thur.	Last day for all master's degree candidates to take comprehensive examination on major course work.
May	24	Tues.	Last day for master's degree candidates to take oral examination on thesis.
May	25	Wed.	Reading and review day; counseling and advising for September.
May	26	Thur.	Examinations begin.
May	30	Mon.	Memorial Day holiday.
May	31	Tues.	Theses due in library and abstracts due in Graduate College office.
June	1	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
June	3	Fri.	Examinations end.
June	5	Sun.	Commencement.

GENERAL INFORMATION

Historical Background

Organization of the University;

Curricula and Degrees

Buildings and Grounds

Housing and Food Service

Other University Services

Student Health Service

Counseling

Clinics

Veterans

Students from Other Countries

Bureau of Appointments

Student Financial Aids

Scholarships

Loan Funds

Student Employment

Prizes and Awards

Cultural and Recreational Opportunities

Student Activities and Organizations

Student Government

Publications

Dramatics

Music

Religious

Scholastic and Social

OHIO UNIVERSITY

HISTORICAL BACKGROUND

Ohio University has a rich heritage. Considered its co-founders are Dr. Manasseh Cutler of Ipswich, Massachusetts, and General Rufus Putnam of Rutland, Massachusetts. It was Cutler who in 1787 signed the Ohio Company's contract with Congress for the purchase of land in the Northwest Territory. The contract set aside two townships of land in the center of the purchase tract as the gift of the United States Government for the founding of a University. It was adding reality to Cutler's words which had been incorporated in the Ordinance of 1787 for the government of the Northwest Territory: "Religion, morality, and knowledge being necessary to good government and the happiness of mankind, schools, and the means of education shall forever be encouraged." It was Putnam who in 1799, after delay caused by the Indian Wars, laid out the town of Athens and the College Green. On March 1, 1803, Ohio, the first of five states to be formed from the Northwest Territory, entered the Union, and on February 18, 1804 its Legislature provided for the establishment of "an University . . . in the town of Athens . . . by the name and style of the Ohio University." Thus Ohio University became the first institution of higher learning in the Northwest Territory and the vast region beyond. It has grown with the Nation and the State into a diversified and effective institution of higher education.

ORGANIZATION OF THE UNIVERSITY

CURRICULA AND DEGREES

THE UNIVERSITY COLLEGE

Basic preparation for admission to each of the degree-granting colleges

Two-year terminal programs leading to the Associate in Arts diploma

THE COLLEGE OF APPLIED SCIENCE

Engineering Curricula leading to the degrees Bachelor of Science in Architectural Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering

Curriculum leading to the degree Bachelor of Science in Industrial Technology

The School of Home Economics

Curricula leading to the degree Bachelor of Science in Home Economics

The Department of Industrial Arts

THE COLLEGE OF ARTS AND SCIENCES

Curricula leading to the degrees Bachelor of Arts and Bachelor of Science

Preprofessional curricula

THE COLLEGE OF COMMERCE

Curricula leading to the degrees Bachelor of Science (major in Agriculture), Bachelor of Science in Commerce, and Bachelor of Science in Secretarial Studies

The School of Journalism

Curricula leading to the degree Bachelor of Science in Journalism

THE COLLEGE OF EDUCATION

Teacher-training curricula leading to the degree Bachelor of Science in Education

THE COLLEGE OF FINE ARTS

Curricula in three schools leading to the degree Bachelor of Fine Arts

The School of Dramatic Art and Speech

The School of Music

The School of Painting and Allied Arts

THE GRADUATE COLLEGE

Programs leading to the degrees Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Science, and Doctor of Philosophy

THE BRANCHES

Chillicothe

Ironton

Lancaster

Martins Ferry

Portsmouth

Zanesville

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

THE RESERVE OFFICERS' TRAINING CORPS

Air Science

Military Science and Tactics

THE UNIVERSITY EXTENSION DIVISION

Extension Classes

Correspondence Courses

CLASSIFICATION AND LOCATION

Ohio University is a coeducational, state-supported university. The city of Athens, home of the University, is located in scenic South-eastern Ohio and has a population of 10,000.

Free from the distractions of a metropolitan center, Athens offers many advantages to the person who desires to pursue university work in an atmosphere of culture and relative quiet.

Athens is conveniently accessible by automobile on U. S. Routes 33 and 50 and State Route 56. The city is on the main New York-St. Louis route of the Baltimore and Ohio Railroad. Bus service from the north is provided by the Lake Shore System and the Zane Transit Lines, from the south by Lake Shore, and from the east and west by Greyhound Lines.

THE SESSIONS

The sessions of the University consist, annually, of two eighteen-week semesters and a summer session of two five-week terms. Sequences of courses are planned to permit students to begin degree programs in any of these sessions. The plan provides year-round study opportunities for students at both the undergraduate and graduate levels.

ACCREDITATION

Ohio University is accredited by the North Central Association of Colleges and Secondary Schools, and by the recognized professional accrediting associations identified with its major academic divisions. It holds membership in the leading state and national educational and professional associations in its major areas of interest. Specific references to accreditation are contained in the respective college sections of the catalog. A selected list of memberships and approvals appears on the inside back cover.

BUILDINGS AND GROUNDS

Ohio University's physical plant consists of 53 principal buildings, 47 auxiliary buildings, and 332 acres of land. There is in addition the Ohio University Airport of 100 acres and the University Farm of 391 acres.

ON THE GREEN

The "College Green" was laid out from time to time between 1799 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. Its present boundaries were fixed in 1844.

The Green now comprises a small part of the land holdings of the University, and a majority of the university buildings are to be found off The Green, although near it.

On The Green are located 12 buildings and two memorial gateways.

MANASSEH CUTLER HALL (18*), the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Center Building. It was given its present name for one of the founders of the University. Its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture.

*See map and key in front of catalog.

WILSON HALL (16) was erected in 1837 and for more than a century was known as East Wing.

McGUFFEY HALL (17), originally known as West Wing, was erected in 1839. This building was named for William Holmes McGuffey, author of the famous "Readers" and a onetime president of Ohio University. It is identical with Wilson Hall in the unit of three old buildings, which today house administrative offices.

Other buildings on The Green are—the EDWIN WATTS CHUBB LIBRARY (12), the ALUMNI MEMORIAL AUDITORIUM (13), the GALBREATH MEMORIAL CHAPEL (14), EWING HALL (Social Sciences) (20), HALL OF FINE ARTS (Architecture, Photography) (19), ELLIS HALL (Art, English, Languages) (15), CARNEGIE HALL (Mathematics, R.O.T.C.) (21), the WOMEN'S GYMNASIUM (22), and BOYD HALL (residence for women) (23).

Most of the other university buildings are located on streets adjacent to or leading from The Green.

OFF THE GREEN

ON EAST UNION STREET, north boundary of The Green, are the UNIVERSITY CENTER (46), the UNIVERSITY GUEST HOUSE (67), the HOME ECONOMICS MANAGEMENT HOUSE (68), the UNIVERSITY ELEMENTARY SCHOOL (30), and the EDUCATION BUILDING (51).

THE STUDENT HEALTH CENTER (42) is located off East Union Street.

ON UNIVERSITY TERRACE, immediately east of The Green, is BRYAN HALL (residence for women) (29) and the AGRICULTURE AND HOUSEHOLD ARTS BUILDING (28).

Also on University Terrace, southeast of The Green, is SCOTT QUADRANGLE (27) and the NATATORIUM (26). Scott Quadrangle, a residence for women, is composed of eight units—ATKINSON, BENTLEY, COPELAND, DANA, DUNKLE, EVANS, GORDY, and HOOVER halls.

ON PARK PLACE, south boundary of The Green, is MUSIC HALL (25) and the PRESIDENT'S HOME (24).

ON COLLEGE STREET, a street running north and south from The Green, will be found the SPEECH BUILDING (44), VOIGT HALL (43), and HOWARD HALL (47). The latter two halls are residences for women.

ON SOUTH COURT STREET, west boundary of The Green are LINDLEY HALL (residence for women) (11) and COPELAND HALL (Commerce, Journalism) (7).

ON PRESIDENT STREET, west of The Green, are to be found the MEN'S GYMNASIUM (9), SUPER HALL (Physics) (8), the CHEMISTRY BUILDING (6), SCIENCE HALL (Zoology) (5), and the ENGINEERING BUILDING (4).

Located on top of the Engineering Building is the nine-inch refractor telescope of the Department of Astronomy.

ON RICHLAND AVENUE, across the South Bridge, are the LIFE SCIENCE BUILDING (50), the ENGINEERING LABORATORY (55), and the ANIMAL BUILDING (53).

The INDUSTRIAL ARTS BUILDING (1) and the HEATING PLANT (2) are located on West Union Street.

EAST GREEN

ON THE EAST GREEN, an area immediately east of the main campus, is an 11-unit housing area for men. The entire project, when the final dormitory (39) is completed, will house 2,200 men students, will have cost approximately seven and one-half million dollars, and will be one of the finest dormitory systems in the Midwest.

Occupied are the following: JOHNSON HALL (31), BUSH HALL (32), BIDDLE HALL (33), PERKINS HALL (34), READ HALL (35), WASHINGTON HALL (36), TIFFIN HALL (37), SHIVELY HALL (38), GAMERTSFELDER HALL (40), and JEFFERSON HALL (41).

ATHLETIC FIELDS

The Athletic Fields, comprising 200 acres, are located across the Hocking River on the east side of Richland Avenue. There is an excellent baseball field (57); Indoor practice building and Ice Rink (49), the first unit of a new Physical Education Plant (48); Ohio Stadium (58), seating 14,000 persons, with a football gridiron and running track; intramural fields; tennis courts and practice fields. Additional recreational areas total 206 acres.

UNIVERSITY GOLF COURSE

The nine-hole University Golf Course is located on the east side of the Hocking River across from Ohio Stadium and the other athletic fields. The two areas are connected by an iron footbridge.

UNIVERSITY AIRPORT

The Ohio University Airport of 100 acres is located approximately two miles from the campus on U.S. Route 50, east of Athens. The field has a runway 4,000 feet in length, four hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilots' ready room. The field is equipped with runway lights for night flying.

UNIVERSITY FARM

The University Farm of 391 acres is located nine miles southwest of Athens. Laboratory work and demonstrations are carried on with crops (primarily grain and feed) and with livestock (dairy and beef cattle, hogs, and poultry). On the farm are two homes, four barns, poultry houses, and numerous small buildings.

HOUSING AND FOOD SERVICE

LIVING ACCOMMODATIONS. Ohio University provides attractive residence halls for the health and well-being of its students. All of the men's and women's facilities are adjacent to the campus, easily and conveniently accessible to other University buildings and to the business section of the city of Athens. Each residence hall has its own dining hall, with the exception of Voigt Hall and the dormitories on the East Green which are served by central dining halls. Management of the dining halls is under competent dietitians, who serve as members of the staff of the Director of Residence Services. Each residence hall is under the supervision of a resident manager or resident head. In addition, a number of graduate assistants and upperclass student counselors are assigned to the halls to aid in the over-all counseling program.

APPLICATIONS. Applications for rooms in either the women's or men's residence halls should be made to the Director of Housing, Ohio University, Athens, Ohio. **HOUSING CONTRACTS ARE MADE FOR THE FULL ACADEMIC YEAR.** An application is considered only if accompanied by a \$5.00 retaining fee made payable to Ohio University. (Applicants for mid-year entrance or the summer session remit \$2.50). The retaining fee is not refundable. **ALL FRESHMEN, EXCEPT THOSE TWENTY-ONE YEARS OF AGE AND OVER, MUST LIVE IN UNIVERSITY HOUSING DURING THEIR FIRST YEAR.** Exceptions are made for commuters and residents of Athens.

BOARD. The cost of board in University dining halls is \$216.00 a semester for 21 meals a week. Meals are served throughout the academic year except during the Thanksgiving, Christmas, and Spring recesses. Board rates are subject to revision, upward or downward, in accordance with prevailing economic conditions. Residents in all University housing accommodations are required to eat in University dining halls.

ROOMS. In the residence halls for men or women, two or more students are assigned to each room. Semester room rates in the permanent dormitories for each student range from \$117.00 to \$144.00. All room rates include telephone, mail, and linen services. Rooms are furnished with dresser, study desks, chairs, beds, and bed linen which is laundered by the University. Items such as blankets, bed spread, dresser scarf, towels, toilet articles, and such accessories as draperies and desk lamp, must be provided by the student.

The University reserves the right to use rooms in any of the residence halls during the Christmas recess.

RESIDENCE HALLS. There are eight residence halls and three University-owned cottages for women. The residence units are Boyd, Bryan, Howard, Jefferson, Lindley, and Voigt halls, Scott Quadrangle, and Ohio University Center Dormitory.

The present facilities for men include nine residence halls. They are Biddle, Bush, Gamertsfelder, Johnson, Perkins, Read, Shively, Tiffin,

and Washington halls. Married students are permitted to live in University residence halls provided their husband or wife is not on campus or in the vicinity of Athens.

PAYMENTS. Following the assignment of a student to a place in a residence hall, an advance payment is required. The amount of the advance deposit, together with a deadline for its receipt, will be indicated in the assignment letter. The advance deposit is applied to the student's room account. An initial board payment will be due the first week of each term. A schedule of payment and dates, determined by the Office of the Treasurer, will be forwarded with the assignment letter.

CANCELLATIONS AND REFUNDS. Full refund of the advance room payment will be made to a student requesting cancellation by September 1 for the fall semester and by January 15 for the spring semester. After those dates, refunds will be made on the basis of 80% of the advance room payment if application for refund is made before the second week of the semester and 50% if it is made before the end of the fourth week. A week is interpreted to mean a calendar week ending on Saturday. A student withdrawing during the semester will be refunded the unused portion of the board payment. Further information about housing may be obtained from the Director of Housing, Ohio University, Athens, Ohio.

ROOMS IN PRIVATE HOMES

Rooms in private homes are listed in the Office of the Director of Housing. Rooms are not listed until they have been inspected and approved by a member of the staff of the Director of Housing or of the Dean of Women. All undergraduate students, except those 25 years of age or over, are required to reside in approved housing. This rule applies to married students whose husbands or wives do not accompany them to Athens on the same basis as to single students.

FRATERNITIES AND SORORITIES

Eighteen of the twenty social fraternities and eleven social sororities maintain houses near the campus in which residence and dining facilities are available to members.

HOUSING FOR MARRIED STUDENTS

NOTE: The apartment and trailer park facilities are provided only for married students and their families.

APARTMENTS. The University has 112 apartment units located on East State Street, approximately two miles from The Green. Each of these apartments consists of a living room, bedroom, kitchen, and bathroom. Each has an abundance of closet space, and is equipped with a gas cooking range and a gas heating unit. Tenants must arrange to supply the additional needed articles. The rent is \$39.00 a month, payable in advance. The rental charge includes all utilities.

In addition, there are seventeen furnished (except refrigerator) two-room prefabricated units which accommodate a like number of families. The rent for each unit is \$30.00 a month, payable in advance. The rental charge includes gas and water. Each family unit is compact, efficient, and quite livable.

Veterans are given preference in the assignment of these facilities.

TRAILER PARK. The University Trailer Park, which will accommodate 36 privately-owned trailers, is located on East State Street, adjacent to the University Airport. Space rental for a trailer is \$10.00 a month, which includes water and sewerage. Excellent toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity.

TRANSPORTATION. Convenient bus service is maintained by the University, on an hourly schedule when classes are in session, at no cost to the occupants of the East State Street area.

Further information about quarters for married students may be obtained from the Director of Housing, Ohio University, Athens, Ohio.

OTHER UNIVERSITY SERVICES

STUDENT HEALTH SERVICE

The Student Health Service facilities are to be found in the Health Center Building, which can be reached from East Union Street.

The Health Center includes a complete clinic with X-ray and minor surgery, an infirmary of forty beds with an isolation wing, a physiotherapy department and nurses' quarters. There is an auditorium where, by means of health films and lectures, an accent is placed upon preventive medicine and health education.

The Health Service maintains a continuous record of each student's health, beginning with the family physician's report which is required on admission. A tuberculin skin test is given each new student on admission. All positive skin reactors are given a chest X-ray each year. All negative reactors are urged to be re-tested each year. This provides a means of early detection and protection for the college community. The Director of the Health Service in this, as in all other respects, has authority to take steps to prevent the spread of communicable diseases and to maintain standards of sanitation on the campus.

The Health Service staff comprises four full-time doctors and nine registered nurses.

Students are entitled to the following:

1. *Clinic.* This ambulant or outpatient service is open from 8 a.m. to 5 p.m., except Saturdays when the hours are 10 a.m. to 12 noon. The Clinic is closed on Sundays and holidays.

2. *Infirmary.* This is the bed, or inpatient, service. Each student is entitled to infirmary care, subject to the judgment of the doctors. The daily visiting hour is from 2:30 to 3:30 p.m., and the number of visitors at any one time is limited to two per patient. During epidemics the visiting hour may be suspended.

3. *Emergency Service.* When the Clinic closes at 5 p.m. the main door is locked. Throughout the evening and night a nurse remains on duty, and a doctor is on call to care for emergencies. Admission can be gained by ambulance or car at the east entrance to the Health Center, or on foot at the west entrance where there is an illuminated night bell. This service is for emergencies only, and is not intended to be an extension of the daytime Clinic.

The university physicians do not make outside calls except in extreme emergency, and then only when called by a housemother, student dean, or other responsible person. The accessibility of the Health Center to all parts of the campus is one of its conspicuous features.

4. *Consultations.* Specialists in eye, ear, nose, throat, major surgery, and psychiatry are available in Athens, and consultations, obtained at the discretion of the Director, are at the expense of the Health Service. The student is responsible for any expense beyond first consultation. The Health Service does not assume any of the cost of glasses or dental care; students are expected to have these matters attended to at home. Likewise, major surgery is not provided for or paid for by the Health Service. The Health Center is not equipped to care for such cases, and they are therefore transferred to their homes or to the local (Athens) hospital. Students' families should carry hospital and medical insurance.

5. *Diagnosis and Medicines.* The Health Center is equipped with full diagnostic service, such as clinical laboratory, metabolism tester, and X-ray. No charge is made for any of these tests. Medicines are also dispensed without extra charge, except in certain chronic cases. Needless to say, the doctor must be the judge as to what tests and what medications are required in any given case.

ABSENCE CERTIFICATES. A student who has been treated in the clinic or infirmary will be given a signed statement to be presented to his individual professors. The Health Service has no responsibility to the student who absents himself from class on his own initiative. A student, therefore, who feels unwell is wise to report to the Health Center at the earliest opportunity.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. A blank certificate giving detailed instruction is sent to each applicant for admission and must be returned to the Director of Admissions properly completed and signed. Tetanus toxoid is given to all entering students unless they have been previously immunized.

COUNSELING

EDUCATIONAL COUNSELING. Each student is assigned to a faculty counselor who is primarily concerned with the educational guidance of the student throughout his freshman year. The counselor assists with the selection of courses and follows the progress of each student in his studies. Because the faculty counselor is selected from the student's major field of interest, many students choose to continue with the same adviser for four years. In the degree college the student is assigned to or selects his adviser on the basis of his field of specialization or concentration. Students are encouraged to consult freely with faculty advisers.

GENERAL COUNSELING. General counseling is a special concern of the Dean of Men and the Dean of Women and their associates in their offices in McGuffey Hall. Through student activities and organizations and the housing program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature; e.g., meeting financial needs, getting along with people, making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. The Dean of Men and the Dean of Women work in close relationship with all other services in the University which are concerned with the welfare of students.

TESTING AND VOCATIONAL COUNSELING. Tests for all new students are administered, scored and reported to the administrative officers and faculty counselors. Students, counselors, and advisers may secure the results of such tests by inquiring at the University Testing and Vocational Counseling Service.

Complete vocational counseling is available to interested students. Educational and vocational plans are developed on the basis of a survey of the abilities, interests, aptitudes and achievements, and also on the basis of the requirements for the occupations and their training programs. A fee of \$5 is charged to cover the costs of tests and test scoring. Application for this service may be made by contacting the staff of the Testing and Counseling Service.

SPEECH AND HEARING CLINIC

The School of Dramatic Art and Speech offers clinical services without charge to students with special problems in speech or hearing. Students wishing counseling or training should inquire at the office of the Speech and Hearing Clinic, Room 204, Speech Building.

VETERANS

Veterans who enter Ohio University should report to the Office of the Coordinator of Veterans Affairs, 29 South College Street. Students who expect to be enrolled under Public Law 634 (orphans of

deceased veterans) should also report to the Veterans Office as soon as possible after their arrival on campus. It is the desire of that office to be of all possible service to veterans and students enrolled in the University.

STUDENTS FROM FOREIGN COUNTRIES

Ohio University welcomes students from other countries who show promise of profiting from educational opportunities in this country, and it has prepared special information for the benefit of prospective students from outside the continental limits of the United States. This information may be obtained by writing to the Director of Admissions, Ohio University, Athens, Ohio.

There is, furthermore, an Adviser to Foreign Students, whose interest in the problems of the foreign student is not limited to official matters. All such students are invited to consult him at the beginning of their period of residence and to call upon him at any time during their stay at the University. His office is located at 29 South College Street.

BUREAU OF APPOINTMENTS

The Bureau of Appointments, located in Cutler Hall, affords students, former students, and graduates of the University assistance in securing positions in such fields as teaching, business, and industry. There is no registration fee or charge for service while an applicant is enrolled as a student in the University or during his first year out of school. After the one-year period, a charge of \$2 a year is made for each year in which assistance is requested.

The Director of the Bureau of Appointments and the office personnel are available to counsel students relative to their vocational plans.

The Bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

PUBLIC RELATIONS OFFICE

The University's Public Relations Office, located in Cutler Hall, provides interesting and reliable information to prospective students and public school officers through personal interviews, literature, and correspondence; and arranges for the availability of university talent and services to high schools, civic groups and other organizations in order that good will toward the University may be furthered.

NEWS BUREAU

Supervised by the Director of Press Relations, the Ohio University News Bureau prepares stories, features, and pictures concerning all branches of the University, including intercollegiate athletics, and the activities and accomplishments of students and student groups, for publication in newspapers and magazines and for radio broadcasts. As-

sistance is given in writing material for various university publications and bulletins. Liaison is maintained with other university and college publicity departments. Visiting members of the press and radio are invited to make the News Bureau, located in Cutler Hall, their headquarters when visiting Ohio University, and every aid is given in securing data requested personally or by letter.

ALUMNI OFFICE

The Alumni Office, a central records office and service agency, located in Cutler Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the Alumni Secretary, who is the executive secretary of the alumni association.

The maintenance of biographical and address records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is the official magazine of the alumni association and is mailed to all members paying the annual membership fee.

The Ohio University Alumni Association was organized June 22, 1859, to serve the mutual interests of the alumni and the University. Any person who has attended the University for at least one year is eligible for membership in it. The Association is governed by a Board of Directors representing the various geographic areas in the United States, the Alumni Clubs, the Alumni Council, the Class Secretaries Council, the Varsity Board Council, the University, and the Ohio University Fund, Inc. The local groups, known as clubs, have been organized in cities, counties, and other geographical areas throughout the United States, where the number of graduates and former students is large enough to warrant or support a club.

OHIO UNIVERSITY FUND, INCORPORATED

The Ohio University Fund, Incorporated, a non-profit organization, was incorporated October 11, 1945, under the laws of the State of Ohio for the support of the educational undertakings of Ohio University. The corporation receives and holds in trust any property, real and personal, that is given, devised, bequeathed, given in trust or in any other way made over to the Corporation for the use or benefit of Ohio University, or of any student or professor, or any dependent thereof, for the purpose of carrying on at the university any line of work, teaching or investigation, which the donor, grantor, or testator may designate. The corporation invests and disburses all monies received, and manages, administers, and controls all property received according to the specifications established by the donors. General gifts are used for projects that cannot be financed by state appropriations, such as student aid, research, scholarships and awards, travel, library needs, intellectual and cultural life, special equipment, general needs, and the president's fund, and other uses as determined by the Board of Trustees.

The Fund is governed by a board of trustees of five members, chosen to give balanced representation from the Board of Trustees

of Ohio University, from the Administration of the University, and from the Ohio University Alumni Association.

Contributions should be made payable to the Ohio University Fund, Inc., and sent to the Director, Ohio University Fund, Inc., Cutler Hall, Ohio University, Athens, Ohio. The Director will be happy to answer inquiries relating to the purposes and management of the Fund.

STUDENT FINANCIAL AIDS

Ohio University attempts to assist students in furthering their education on the college level by providing three types of financial aid: scholarships, loans, and employment.

Unless otherwise indicated, persons desiring information concerning any of these types of aid or who submit applications for them should direct their communications to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

SCHOLARSHIPS

ALUMNAE, ALUMNI AND MOTHERS CLUB SCHOLARSHIPS. Scholarships in varying amounts are awarded annually by Ohio University women's clubs in Akron, Dayton, and Youngstown, by Ohio University mother's clubs in Lakewood and Youngstown, and by various chapters of the Ohio University Alumni Association, to seniors graduating from high schools in the immediate areas of the organizations, or to students already enrolled in the University from these areas.

A.A.U.W. SCHOLARSHIP. Through the generosity of the Athens Branch of the American Association of University Women an annual scholarship has been established that provides for the remission of the general registration fee for each semester and is available to a girl graduate from an Athens County high school on the basis of citizenship, leadership, and scholastic aptitude and promise.

ANCHOR HOCKING SCHOLARSHIPS. The Anchor Hocking Scholarships at Ohio University have been established by the directors of the Anchor Hocking Glass Corporation, Lancaster, Ohio, for the purpose of providing financial assistance to worthy young men and women who seek a college education. Those eligible to apply for these scholarships are seniors or graduates of all high schools in the communities and counties in which the corporation's plants and offices are located. These include Lancaster and Fairfield County, Ohio; Connellsville and Fayette County, Pennsylvania; Salem and Salem County, New Jersey; Winchester and Randolph County, Indiana, and Sales Offices of the Company. Graduation from an accredited high school and a scholastic standing in the upper third of the graduating class are basic requirements.

Each scholarship has an annual monetary value of \$250, with the possibility of annual renewals for a four-year period. The money is to be applied to registration fees and books. Renewals are based upon a thorough review of the recipient's scholastic accomplishments at the University.

Candidates for the Anchor Hocking Scholarships submit applications directly to the Scholarship Committee, Ohio University, Athens, Ohio, and the selection of candidates rests entirely with that body. Applicants must meet established standards which include scholastic achievement, leadership, high moral character, financial need, and other qualifications which point to success in college and post-college life.

BEASLEY SCHOLARSHIPS. A grant of \$1,000 from Mr. F. R. Beasley, Athens, Ohio, provides cash awards each semester to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

CHILLICOTHE EDUCATIONAL FOUNDATION. Six business establishments and industries, a fraternal organization, and an individual have made available eight endowed scholarships of \$200 each for Chillicothe Branch students.

CLINTON POSTON BIDDLE MEMORIAL SCHOLARSHIPS. In 1939, Dr. T. R. Biddle, '91, and Mrs. Biddle, Athens, Ohio, gave \$5,000 to the University for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle, '17. This fund is now available for scholarships, without limitations as to academic class or scholastic standing.

COLUMBIA DOWNING SCHOLARSHIPS. Madeleine Downing Knight, Glynlea, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income from the fund, \$600 annually, is normally divided among several qualified students.

ROSE MARIE DARST SCHOLARSHIP. A bequest of \$3,000 has been received from the estate of the late Mrs. Mary E. Darst to establish a memorial to her daughter, Rose Marie Darst, '26, a former assistant professor of art at Kansas State College. Income from the memorial fund is used to provide scholarships for "worthy students of high standing in the Art Department."

RUTH AND ORAL DAUGHERTY SCHOLARSHIP. An endowment established through the generosity of Mr. and Mrs. Oral Daugherty of Nelsonville, provides an annual income of \$150 to be awarded a graduate of Nelsonville High School each year on the basis of scholastic aptitude and promise, qualities of citizenship, leadership, participation in school activities and evidences of good character.

FORBES FUND SCHOLARSHIP GRANTS-IN-AID. An endowment of \$8,000 provides \$480 cash each year to assist with the cost of housing for girls who are working to help pay college expenses. Awards are based upon scholastic standing and need.

GALBREATH SCHOLARSHIPS. A grant of \$1,000 from Mr. John W. Galbreath, '20, a member of the Board of Trustees of Ohio University, provides cash awards each semester to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

GRADUATE SCHOLARSHIPS. Several University Scholarships are available to college graduates who have maintained a high scholastic average. These awards pay the basic registration (resident or non-resident) fee. Applications should be filed with the Director of Student Financial Aids by July 1.

McLAUGHLIN SCHOLARSHIP. A scholarship has been established in memory of George E. McLaughlin, '14, former professor of industrial arts, by his daughter, Mrs. Helen McLaughlin Gray, '32. Income from a memorial fund of \$1,500 is awarded annually to an outstanding student who is majoring in industrial arts and who is in need of financial assistance.

ALBERT F. MARTING SCHOLARSHIPS. One two-year scholarship is available each year to high school graduates who enroll in the Portsmouth Branch of Ohio University. The value of the scholarship is \$100 for each semester the student is enrolled up to a maximum of four semesters.

Final awards are made by an impartial committee of five members. Awards are based upon the following: (a) high school scholastic record; (b) score on a college ability test; (c) qualities of citizenship, leadership, and participation in school activities.

Applications, in writing, should be made not later than July 1 to The Marting Bros. Co., Portsmouth, Ohio.

OHIO ACADEMY OF SCIENCE SCHOLARSHIPS. Scholarships are available to winners in the Ohio Academy of Science Competition for high school seniors. Awards are based upon: (a) high school scholastic record, (b) superior academy exhibit rating, and (c) approved rating in the National Science Talent Search Test or in a science test given by the Ohio Academy of Science. These scholarships provide for remission of the general registration fee each semester.

OHIO UNIVERSITY SCHOLARSHIPS. A limited number of scholarships are awarded annually to a selected group of high school graduates and college students. Each scholarship is awarded for the academic year of two semesters, and provides for the remission of the general registration fee each semester. A faculty committee appointed by the president of the University awards all scholarships on or before July 1.

Freshman Scholarships are awarded to high school graduates who rank high in their graduating classes. Awards are also based upon need, character, recommendations, high school activities and results of the Ohio State Psychological Test.

Upper-Class Scholarships are available to students who have completed at least two semesters in residence at Ohio University, and who are carrying a full academic load. Any student having a point-hour ratio of 3.0 (B) or who expects to attain it by the close of the second semester, may apply for a scholarship at any time after April 1 and prior to June 1. Awards are based upon scholastic achievement, need, and college activities.

H. WESTCOTT ROACH SCHOLARSHIP. A scholarship has been established in the memory of H. Westcott Roach, '23, by his widow, Mrs. Helen Hedden Roach, '36. Income from a memorial fund of \$2,500 is used to provide an annual scholarship for a student of outstanding ability who is majoring in music and who is in need of financial assistance.

SESSQUICENTENNIAL SCHOLARSHIPS. As their contribution to the observance of Ohio University's 150 years of educational leadership, the alumni and friends of the University have pledged in excess of \$400,000 toward a Sesquicentennial Scholarship Fund. The money has been invested in the Irreducible Debt Fund of the State of Ohio. At least 80 annual scholarships, with a value of \$150 each, have been established in perpetuity through these contributions. The names of the donors are being inscribed in a book appropriate for the purpose.

The Sesquicentennial Scholarships are awarded on the basis of scholastic achievement, character, need, and recommendations. It is hoped that the recipients of these awards may someday contribute to similar funds to help students who follow them in years to come.

SPECIAL MUSIC SCHOLARSHIPS. A limited number of scholarships are available to students having special ability and promise in applied music. These scholarships provide for remission of the general registration fee each semester and for remission of the applied music fees.

PAUL AND BETH STOCKER SCHOLARSHIP. Through the generosity of Paul Stocker, '26, and Mrs. Beth Kilpatrick Stocker, '28, Lorain, Ohio, an endowment has been established which provides an annual income of \$150 to be awarded a son or daughter of an employee of the Lorain Products Corporation. Applicants must meet the standard requirements established by the University Scholarships Committee.

HARRIET E. TENAN SCHOLARSHIP. The Harriet E. Tenan Scholarship is awarded to an entering freshman boy or girl from McConnelsville, Ohio, who is recommended by the pastor of the McConnelsville Trinity Methodist Church and the editor of the *Morgan County Herald*. The annual award is made from the income from a gift to the University by the founder of the fund.

HENRY ZENNER SCHOLARSHIPS. The Henry Zenner Scholarships were established by the directors of The McBee Company, Athens, Ohio, for sons and daughters of persons in the employ of the company. However, if eligible candidates are not found among sons and daughters, the scholarships will be made available to any qualified scholarship applicant at Ohio University selected by the Scholarships Committee.

High school graduates and upperclass students are eligible to apply for the Henry Zenner Scholarships provided they meet the University's established standards, which include scholastic achievement, leadership qualities, high moral character, seriousness of purpose, and financial need. Applications are submitted directly to the Scholarship Committee, Ohio University, Athens, Ohio, which has sole jurisdiction in the awarding of the scholarships.

Each scholarship provides for the payment of all fees, room rent, and an allowance of not to exceed \$75 for books and supplies. It is awarded for one year, but is renewed automatically from year to year, provided the recipient continues to meet the University's standards for graduation. The Henry Zenner alternate scholarships provide for the payment of all fees.

JAMES W. FAULKNER MEMORIAL FUND SCHOLARSHIP. An annual \$250 scholarship for a worthy and needy student of journalism who is a resident of Ohio. Renewable year to year if a point-hour ratio of 2.5 is maintained. Established by the trustees of the Fund which was raised by friends of Mr. Faulkner, a pioneer among Ohio political writers and state house correspondents, after his death in 1923.

GENERAL SCHOLARSHIPS

AMERICAN BANKER'S ASSOCIATION SCHOLARSHIP. The American Banker's Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. This loan scholarship is awarded to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

FULBRIGHT OR MARSHALL SCHOLARSHIPS. Students who are interested in applying for Fulbright or Marshall Scholarships should consult Dr. B. A. Renkenberger, Chairman, Foreign Study Committee, Ohio University, Athens, Ohio. Application blanks are available at the opening of the academic year each September. Only graduate students are eligible for these awards.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined bases of character, scholarship, athletics, and leadership in collegiate activities. Persons desiring information or application blanks should direct their communications to Dr. Paul G. Krauss, Ohio University, Athens, Ohio.

GRANTS-IN-AID

LICHTER GRANTS-IN-AID. Through a gift of the Lichter Foundation of Cincinnati, ten grants-in-aid of \$200 each are available each year to high school graduates in modest circumstances who desire an opportunity of working their way through college. Awarding of the grants will be based upon character, superior scholastic standing, recommendations, definite need, and personal interviews.

Applicants for these grants must be prepared to demonstrate their willingness to take employment as a means of helping to defray their expenses. The University will make available employment on the campus, or will give assistance in obtaining employment elsewhere.

Should a successful applicant find that the grant-in-aid, his own earnings, and supplementary help from home sources are not sufficient to cover school expenses, he will have the privilege of borrowing from the Lichter-provided loan fund (see Loan Funds).

LOAN FUNDS

Certain general provisions apply to all loan funds unless otherwise noted. These provisions include the following:

1. Applicants must have a point-hour ratio of at least 2.0 (C).
2. Long-term loans bear an interest rate of four (4) per cent per annum.
3. For the most part, long-term loans are available only to upper-class students (juniors and seniors).
4. Inquiries and applications should be directed to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

ALUMNI LOAN FUND. A number of alumni and friends of Ohio University have contributed over \$8,000 for the purpose of furnishing loans to students pursuing four-year courses in the University. Loans may not exceed \$200.

KELLOGG FOUNDATION LOAN FUND. The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$2,000 to be used as a loan fund for medical technology students during their year at Mount Carmel Hospital in Columbus. See "Medical Technology" under ZOOLOGY.

LICHTER FOUNDATION LOAN FUND. In considering applications for assistance, primary consideration will be given to the student's scholastic record. However, account will also be taken of the applicant's evidences of need for financial assistance, of his good character, and of his general worthiness and professional promise.

To receive favorable consideration, an applicant must:

1. Be endorsed as to character and personality by (a) two persons of some standing in the community in which he has resided who have known the applicant at least five years, one of whom preferably should be an alumnus of the University; (b) the principal or headmaster of the high school or preparatory school, or the president or dean of the college or university previously attended; (c) the registration officer or head of the college in which he is enrolled.
2. Be in good health, and furnish upon request a certificate from a physician to that effect.
3. Submit a statement of his financial needs and such other information as the Foundation may deem necessary, on the application form of the Foundation, such application to have the approval of his parent or guardian.

4. Be prepared upon request to furnish such life insurance as collateral as may be required by the Foundation.

A recipient of a loan will be required to sign a promisory note for each sum received. The notes will begin to bear interest at the rate of 3% per annum, payable semi-annually, one year after graduation, or after leaving the University for other reasons. Should the applicant, for reasons satisfactory to the Foundation, postpone entering upon his earning career, he may apply for deferment of the date of the beginning of interest until one year after entering upon his earning career.

One year after leaving the University, and annually thereafter, the recipient of a loan will be required to consult with the Lichter Foundation for the purpose of establishing a program of payment of the notes commensurate with his earning capacity. He will be required, on these occasions, to inform the Foundation of his whereabouts, the character of the work in which he is engaged, and the remuneration he is receiving.

In general it will be the policy of the Foundation to make loans to students who have completed at least one year of residence in college with a good academic record. In exceptional cases, applications will be considered from a student after one semester of residence. Applications will be considered from students entering college in special cases, in which the applicant shall have met, with high standing, all entrance requirements and shall present references and records of previous attainments of the highest order.

HENRY STRONG EDUCATIONAL FOUNDATION LOAN FUND. Scholarship loans are granted to qualified upperclassmen under twenty-five years of age. Interest at 3% per annum begins to accrue at graduation or upon withdrawal from college, and repayment of the principal and interest is made during the four year period after graduation or withdrawal. Loans up to \$600 for an academic year may be obtained by students who are superior risks as evidenced by scholarship, character, and future financial ability.

MEL WEINBERG MEMORIAL LOAN FUND. In memory of their son, Mr. and Mrs. Jerome M. Weinberg of New York City have contributed \$500 for the establishment of this fund. Its purpose is to make available to juniors or seniors of demonstrable need small loans to be repaid within two years after graduation. The maximum sum to be loaned is \$250.

G. FRANKLIN WHITE STUDENT LOAN FUND. This fund, of \$2000, was provided by the will of the late Dr. G. Franklin White, '01. Preference is given to students preparing to teach and to pre-medical students. Preference, under the terms of the grant, is also given to residents of Ohio, although non-residents are not barred from applying for loans.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. The Women's League of Ohio University maintains a loan and service fund for women students. A sum not to exceed \$200 may be borrowed by a student who has spent at least one year on the campus. Collateral, or payment guaranteed by a parent, is required.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. Delta Gamma Chapter of Alpha Phi Omega, national scouting service fraternity, has established a loan fund of \$50. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25 cents is made for a 30-day loan.

LAKEWOOD MOTHERS' CLUB LOAN FUND. The Ohio University Mothers' Club of Lakewood, Ohio, has given \$100 to be used as an emergency loan fund for the benefit of students whose homes are in Lakewood, Rocky River, Bay Village, or Fairview. Any amount up to \$10 may be borrowed for one month's time without qualification except as to residence. A fee of 25 cents is charged for each loan.

MEN'S UNION EMERGENCY LOAN FUND. The Men's Union, which is the governing organization representing all men on the Ohio University campus, has set up a loan fund with a principal amount of \$1,200. Loans not exceeding \$35 are made to men students to meet financial emergencies. Loans are not made for expenses which might reasonably be anticipated. A service charge of 40 cents is made for a 30-day loan.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. The Women's League, in addition to their long-term loan, has set up a loan fund for women on the short-term basis. A maximum amount of \$35 may be borrowed for 30 days with a service charge of 40 cents.

HEALTH SERVICE FUND

DELLA HIXSON HEALTH SERVICE FUND. Prompted by a deep interest in physical welfare, the late Mrs. Della Connett Hixson, '97, Cambridge, Ohio, bequeathed a sum of money to the University, the annual interest on which, approximately \$700, is to be used for the treatment and hospitalization of students who are financially unable to provide such service for themselves or whose families cannot defray these expenses. The fund, known as the Della Hixson Health Service Fund, is administered by a committee composed of the Dean of Women (chairman), the Dean of Men, and the Director of the University Health Service.

PART-TIME EMPLOYMENT

Every effort is made to secure employment for those students whose resources are not adequate for entire self support and who request aid. The placements are both on and off campus, and fall into three general categories: (1) board jobs in various university dining halls; (2) part-time work as student assistants in university departments and offices; (3) part-time employment in Athens business establishments and homes. The job referrals are based upon: (1) cumulative grade average, (2) need, (3) personal qualifications, (4) past experience, and (5) free time. For freshmen, high school records and recommendations are considered. All board job recipients must have a lung x-ray.

Provision is made for special class schedules in order to permit students to meet employers' needs. Adjustment of academic programs for employment will not be made for students having a point-hour ratio less than 2.0 (C), for students on academic warning, or for working beyond a distance of 75 miles from Athens. Freshman students, in cases of essential need, are given every consideration for permits for schedule adjustment. Students applying for permits must present a letter from the employer, stating working hours, to the office of the Dean of Men or Dean of Women before consulting their adviser prior to registration for the semester.

Anyone wishing to apply for part-time employment may do so by writing directly to the Director of Student Financial Aids, Ohio University, Athens, Ohio, or by contacting the director personally in McGuffey Hall.

PRIZES AND AWARDS

Announcement of the winners and presentation of the following prizes and awards are made at the Honors Day Convocation, usually held in April. The awards have been established, primarily, for the recognition of high scholastic achievement. Complete descriptions and other information relating to them may be obtained from the Chairman, Committee on Scholarship Encouragement.

In the listing below, the name of the prize or award is followed, in parentheses, by the field in which it is given; a designation of those eligible for it; and by the name of the donor, if the latter is not indicated by the name of the award.

A. A. ATKINSON AWARDS. (Physics and electrical engineering.) Seniors. Established by the late Dean A. A. Atkinson, '91, of the College of Applied Science.

ALPHA DELTA PI SCHOLARSHIP PRIZE. (General scholarship.) Sophomore girl.

ALPHA GAMMA DELTA SPEECH CORRECTION AWARD. (Speech correction.) Senior major—man or woman—expecting to continue graduate work in the field.

ALPHA LAMBDA DELTA SENIOR AWARD AND HONOR CERTIFICATES. (General scholarship.) Senior rank and membership in awarding organization.

ALPHA LAMBDA DELTA JUNIOR AWARD. (General scholarship.) Junior rank and membership in awarding organization.

AMERICAN INSTITUTE OF CHEMISTS SENIOR AWARD. (Chemistry.) Senior.

BORDEN FRESHMAN PRIZE. (General Scholarship.) Student with the highest scholastic average during his freshman year.

CHI OMEGA ECONOMICS PRIZE. (Economics.) All women.





CLEVELAND BOBCAT CLUB AWARD. (General scholarship.) Freshman boy.

DELTA PHI DELTA AWARDS. (Space arts and fine arts.) To a freshman in the former; to a senior in the latter.

DELTA SIGMA PI AWARD. (Commerce.) Male student who upon graduation ranks highest for entire course in commerce and business administration.

DICK DE LA HAYE HUGHES BAND AWARD. (Band.) Junior. Established by Mr. M. D. Hughes, '12, and Mrs. Hughes as a memorial to their son.

DOUGAN VARSITY BASEBALL AWARD. (Baseball.) Varsity player. Established by Dr. Stanley Dougan, '14, and Mrs. Nelle Stokes Dougan, '16.

EMERSON POEM PRIZE. (Original poetry.) Students or graduates of Ohio University. Established by Mr. W. D. Emerson, of the Class of 1833. Awarded biennially. Entries for the next competition must be in the hands of the President of the University before the opening of the second semester of 1958-59.

EVANS LATIN PRIZES. (Latin.) Students in the classical languages. Established by the Ohio University Alumni Association as a memorial to Dr. Dafydd J. Evans, '71, for many years professor of classical languages at Ohio University.

FRANCES McVICKER MAXWELL DEBATE AWARD. (Intercollegiate debate.) Junior or senior man or woman.

FRANK B. GULLUM AWARD. (General scholarship.) Male student with highest scholastic record during first two semesters at Ohio University. Established by Delta Tau Delta fraternity in honor of Frank B. Gullum, '07, associate professor emeritus of chemistry.

GEORGE LaVALLEE AWARD IN CHEMISTRY. (Chemistry.) Senior. Established by the Upper Ohio Valley Section of the American Chemical Society.

HORN SENIOR COMMERCE PRIZE. (Commerce.) Senior in Commerce with highest scholastic average in commerce subjects. Established by the late Mr. Clarence H. Horn, '01, former lecturer in commerce, and augmented as a memorial by his widow and son, Mrs. Sarah Murphy Horn, '00, and Robert H. Horn, '25.

INTER-DORMITORY COUNCIL AWARD. (General scholarship.) Sophomore or junior woman residing in a university dormitory.

IRMA E. VOIGT MEMORIAL AWARD OF SIGMA KAPPA. (Dramatic art and speech.) Senior girl participating in dramatic productions or in a related technical field. Established by Sigma Kappa sorority as a memorial to Dr. Irma E. Voigt, dean of women at Ohio University, 1913-1953.

J-CLUB AWARD. (General scholarship.) Junior man.

JOHN BAYARD THOMAS PREMEDIC PRIZE. (Zoology.) Junior or senior premedical student who has gained admission to a medical school. Established by Dr. Josephus Tucker Ullum, '98, as a memorial to his nephew, and augmented in 1954 by three of Dr. Ullum's sisters, Mrs. Mary Ullum Thomas, '96, Mrs. Margaret Ullum Stalder, '05, and Mrs. Charlotte Ullum Coultrap, '08.

JOSHUA R. MORTON AWARD IN CHEMISTRY. (Chemistry.) Major in chemistry. Established by the Ohio University Chemistry Club in honor of J. R. Morton, '05, professor emeritus of chemistry.

JULIA J. NEHLS HOME ECONOMICS AWARD. (Home economics.) Junior girl majoring in home economics. Established by Kappa Delta sorority in honor of its adviser, Miss Nehls.

MEN'S UNION SCHOLARSHIP PRIZES. (General scholarship.) All men achieving a 4.0 scholastic standing in either of the two semesters preceding the award; the fraternity pledge class and the East Green dormitory with highest scholastic averages for the Fall semester.

MERRILL PALMER SCHOLARSHIP AWARD. (Home Economics.) Provides the privilege of studying for one semester at the Merrill Palmer School in Detroit, Michigan. Awarded to students who have shown high scholarship and aptitude and interest in Family Life Education.

OHIO UNIVERSITY FUND, INC., AWARDS. (Scholarship.) Seniors who show outstanding ability and willingness to undertake scholarly work independently and on own initiative.

PANHELLENIC SCHOLARSHIP AWARDS. (General scholarship.) Sorority with highest scholastic average for the preceding two semesters. Established by the Panhellenic Association.

PANHELLENIC FOREIGN STUDENT AWARD. (Scholarship and need.) Foreign woman student. Established by the Panhellenic Association.

PEARL HEHN GAMERTSFELDER PHILOSOPHY PRIZE. (Philosophy.) Junior who through high scholarship and campus citizenship shows promise for a career in philosophy or a closely related field.

PHI BETA KAPPA HUMANITIES AWARDS. (Classical languages and other humanities.) Juniors and seniors. Established by Dr. Anna Pearl McVay, '92.

PHI MU PLEDGE CLASS AWARD. (General scholarship.) Sorority pledge class having highest scholastic average for first semester of the year.

PHI UPSILON OMICRON AWARDS. (Home economics.) Sophomore woman and senior woman.

SIGMA ALPHA IOTA MUSIC PRIZE. (General scholarship.) Sophomore woman with a major in music.

SIGMA ALPHA IOTA NATIONAL HONOR CERTIFICATE. (General scholarship.) Senior woman, member of awarding organization, with the highest scholastic average.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. (General scholarship and achievement.) Highest five per cent of seniors in journalism, and most outstanding senior man in journalism.

SINA SIDWELL ROGERS PRIZE IN FINE ARTS. (Art.) Junior or senior, member of Delta Phi Delta, national art fraternity. Established by Mrs. Elizabeth Sidwell Wagner as a memorial to her sister, Miss Sina Sidwell, '25.

SUPER GREEK PRIZES. (Greek language and classical culture.) Juniors and seniors. Established by friends and former students of Dr. Charles W. Super, former president of Ohio University and classical scholar.

THETA SIGMA PHI AWARDS. (Journalism.) Two most outstanding senior women in journalism.

THOMAS COOKE McCracken KAPPA DELTA PI SCHOLARSHIP AWARD. (Education.) Senior in Omega Chapter of Kappa Delta Pi or an alumnus of the Chapter, or a Senior in the College of Education, expecting to pursue graduate study in teacher preparation. Recipient selected on bases of scholarship, personality and leadership qualities, and promise of high attainment in educational service. Established in honor of Dr. T. C. McCracken, dean emeritus of the College of Education, and for many years national president of Kappa Delta Pi.

VARSITY "O" SCHOLARSHIP AWARD. (Scholarship and citizenship.) Member of a varsity sports squad.

WOMAN'S MUSIC CLUB PRIZE. (Music.) A music major enrolled in the College of Education, the College of Fine Arts, or the College of Arts and Sciences. Established by the Woman's Music Club of Athens.

WOMEN'S INDEPENDENT ASSOCIATION AWARD. (General scholarship.) Upperclass woman.

WOMEN'S LEAGUE SCHOLARSHIP AWARDS. (General scholarship and need.) (1) Sophomore girl with highest two-consecutive-semester record, (2) women students with 4.0 scholastic average for second semester of year preceding the awarding or first semester of year in which award is made, (3) residence cottage for women with highest scholastic average.

ZETA TAU ALPHA PRIZE IN FINE ARTS. (General scholarship and merit.) Sophomore in College of Fine Arts.

CULTURAL OPPORTUNITIES

FOREIGN STUDY PROGRAMS

EXCHANGE PROGRAMS IN FRANCE AND SPAIN. Students interested in spending a year in France or Spain may have the opportunity to do so under the Exchange Program sponsored by the University and supervised by the Department of Romance Languages. These students will follow an academic program in Paris or Madrid under the guidance of the French Ministry of Education or the Instituto de Cultural Hispanica, and, upon presentation of a diploma granted for the work done, will receive credit for a year of work at Ohio University.

Any student may participate in this program who has the preparation in language necessary to pursue the course work. However, language majors (particularly those who are preparing to teach) will be given preference where a choice is necessary. It is highly desirable that the student be in his junior year during his study abroad, although exceptions may be made in deserving cases.

Each student pays to the Office of the Treasurer the same fees that he would pay were he to be on the campus. The French or Spanish student pays the same fees (board, room, and tuition) in his own school. The two then exchange places.

Ordinarily the student will sail for Europe in mid-September. This will give him time to adapt himself to his surroundings and to become more fluent in the language before the opening of classes in early October. Classwork usually ends about the first of July. All arrangements for this program are made through the Director of Foreign Study, Ohio University, Athens, Ohio.

TRAVEL—STUDY PROGRAMS IN FRANCE AND SPAIN. Each summer Ohio University sponsors a program of travel and study in France and Spain. These projects are primarily intended for teachers of French and Spanish in high schools and colleges, but other interested persons may be accepted. Language qualifications must be met only where credit is desired.

The program consists of five weeks in and about Paris or Madrid, with the time divided between classwork and educational and recreational activities. The dates of the program are approximately the same as those of the Ohio University Summer Session.

Up to four hours of graduate or undergraduate credit may be earned in French or Spanish in two two-hour courses. The classwork is held in the mornings, leaving afternoons, evenings and weekends free for sightseeing, travel, and the theatre. The last week is free of classwork and students are at liberty to travel.

The groups will be under the guidance of one of the regular members of the Ohio University staff, and instruction will be given by native French or Spanish teachers. Those not wishing to earn credit will register as auditors.

Persons interested in this program should communicate with the Director of Foreign Study, Ohio University, for further details.

UNIVERSITY LIBRARY

Books are an important part of an educational experience at Ohio University. The University Library is organized to provide books for study and research and to promote an appreciation for reading as one of the cultural assets of later life.

The collections are housed in the Edwin Watts Chubb Library, erected in 1930 and named in honor of a former dean of the College of Arts and Sciences. The main collection of more than 275,000 volumes, including periodical sets, documents, and pamphlets, is shelved chiefly in the stacks to which all students have direct access. A reference collection of several thousand volumes is in the Reading Room and current issues of more than 1,200 periodicals are in the adjoining Periodical Room. Newspapers from the principal cities of Ohio and elsewhere are available in the Philomathean Room nearby, which also contains a selection of standard literature.

Books reserved in courses at faculty request are on the ground floor. The Athenian Room serves as a history reading room; selected documents and maps are on display illustrating the history of the University and the state. Other special subject reading rooms will be developed as facilities permit. A browsing room contains books of general interest for pleasure reading. A collection of sound recordings is available for use in the Irvine Room and here is kept the library's collection of microfilm which includes files of newspapers printed in Athens from 1825. A microcard reader is also available here.

In the Children's and Young People's Room an extensive collection of books for younger readers provides service to the children of Athens and is used as a laboratory by students in education. Small collections of specialized material are administered by the College of Commerce, School of Music, Department of Chemistry, Department of Physics, and the University Health Center.

During regular sessions the Library is open daily and throughout the evenings; on weekends and during vacations shorter hours are observed.

GUEST ARTISTS AND SPEAKERS

In addition to bringing many distinguished persons to the campus for limited engagements, the University each year invites one or more guest artists to spend periods of time during which they not only lecture or appear in recitals but counsel informally with interested students.

Among the visitors who have recently been in residence for consultation and instruction are Dr. Ernst von Dohnanyi, composer, conductor, and pianist; Maurice Eisenberg, cellist; Charles Burchfield and Ben Shahn, artists; Marc Connelly, playwright; Charles Laughton and Blanche Yurka, of stage and screen; Jean Renoir, motion picture director; Clare Leighton, printmaker; and Charles Allen Smart, author of a best seller, "R.F.D.," and other novels.

Guest speakers have included men and women eminent in such fields as business, education, the fine arts, science, government, and foreign affairs.

SPECIAL CONCERT SERIES

The Athens Community Concert Association and the Athens Chamber Music Society each sponsor a concert series, bringing to the campus internationally-famous instrumentalists and vocalists, symphony orchestras, opera and ballet companies, and chamber music groups. Special arrangements are made for the admission of students.

FINE ARTS PROJECTS

The College of Fine Arts plans many events of a cultural nature each year. In addition to the numerous concerts and plays which are presented by the students and faculties of the School of Dramatic Art and Speech and the School of Music, the two schools have cooperated in campus-wide production of "Roberta," "Girl Crazy," "Song of Norway," "No, No, Nanette," "Brigadoon," "Fledermaus," "Finian's Rainbow," "Kiss Me, Kate," "Knickerbocker Holiday," and "Oklahoma."

Since 1943, the School of Painting and Allied Arts has sponsored the Ohio Valley Oil and Water Color Show, a competition open to artists of Ohio, Illinois, Indiana, Kentucky, West Virginia and Pennsylvania. The University is building a permanent collection of paintings, many of which are purchased from this show.

The Ohio Valley Summer Theatre, sponsored by the School of Dramatic Art and Speech, produces annually a series of six outstanding plays.

ART EXHIBITS

The School of Painting and Allied Arts maintains an art gallery in the Edwin Watts Chubb Library in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in other parts of the library and in the University Center.

UNIVERSITY MUSEUM

The University Museum of Natural History, oldest of its kind west of the Allegheny Mountains, houses more than 80,000 specimens, including specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

Many science collections have gravitated to the museum through the efforts of local groups, societies and individuals. These have yielded series of fossils, rocks, minerals, plants and animals. In addition, there are on display many items of archaeological, ethnological, economic and historic interest.

The museum is housed in the basement of Alumni Memorial Auditorium and is open to the general public—Monday through Friday, 9 to 11 a.m.; Monday and Tuesday, 3 to 5 p.m.; Friday 1 to 3 p.m.; Saturday, 9 a.m. to 12 noon; and Sunday by special group request.

RECREATIONAL OPPORTUNITIES

THE UNIVERSITY CENTER

The University Center provides facilities for the cultural, social, and recreational benefit of students. The Center, located opposite the north gateway to the campus, contains three beautiful lounges, a large ballroom, dining rooms, cafeteria, snack bar, library and record listening room, television, conference rooms, student government and publications offices, and recreational areas for bowling, billiards, table tennis, and cards.

Club rooms for both men and women members of the university faculty are also located in this building.

The University Center is not only a place for fun and relaxation, but is also an educational workshop, where students can develop cultural interest, skills in human relations, and organizational efficiency during their out-of-class hours.

A faculty-student policy board controls the operation of the building, and an all student board directs the large and varied program provided by the Center for the benefit of the entire student body.

THE NATATORIUM

The Natatorium is one of the largest and most modern of such structures on any college campus. Conveniently located adjacent to the main campus, the building is featured by a pool, 42 feet wide by 75 feet long, with six standard 7 foot racing lanes and a rated capacity of 116 persons. The pool is equipped with submerged lighting, Olympic-style starting blocks, diving boards, and safety equipment.

The building contains locker rooms, dressing rooms, and spectator accommodations for about 1,000 persons.

The facilities of the Natatorium are available to students for both credit and recreational swimming.

GENERAL RECREATION

The Division of Physical Education and Athletics directs the intramural athletic program at Ohio University. This program includes competitive and physical recreational activities that are sponsored for men and women students.

Facilities at Ohio University for intramural athletics include a gymnasium for men, a gymnasium for women, a natatorium, an ice skating rink, a game room in the University Center, and extensive outdoor recreational areas. The men's athletic fields are equipped to

handle ten softball games or seven touch-pass football games at one time. Women's athletic fields are available for intramural softball, hockey, archery, and soccer. Thirty-seven tennis courts are used interchangeably for men's and women's programs. Outdoor areas for basketball, horseshoe pitching, bowling on the green, and volleyball are also available to men and women.

The indoor practice building houses an ice skating rink, 85 feet by 190 feet, the first such college facility in the state. From October to April there are classes in beginning and advanced skating skills, in addition to recreational skating. Ice hockey is an intramural and inter-collegiate sport.

Plans are being completed for a \$2,000,000 Physical Education and Athletic Plant, which will accommodate a diversified sports and activity program for men and women.

Intramural activities for men include touch football, basketball, track, golf, volleyball, handball, softball, tennis, badminton, bowling, horseshoes, wrestling, field days, soccer, hockey, swimming, and table tennis.

Intramural activities sponsored by the Women's Recreation Association include hockey, archery, tennis, bowling, basketball, soccer, softball, golf, and swimming.

The Division of Physical Education and Athletics directs the varsity sports program which consists of football, baseball, basketball, track, soccer, wrestling, cross country, tennis, swimming, golf, ice hockey, and riflery.

The Women's Recreation Association has a cabin in the wooded hills outside of Athens that is available to groups for outing activities.

A nine-hole, university-owned golf course, located adjacent to the campus, is available to the university community.

The University Center is, as its name suggests, truly a center of recreational, social, and educational activities within most attractive surroundings.

Dramatic productions by the University Theatre and the University Playshop are scheduled at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, both formal and informal, are held during the year.

The Dance Club, sponsored by the women's department of the Division of Physical Education and Athletics, gives an annual dance concert which is a production of compositions in dance form.

The Dolphin Club, a women's aquatic group, presents an annual water show.

Under the sponsorship of the Men's Independent Association, feature movie productions are shown three nights each week in Memorial Auditorium.

Several of the local churches have social-religious programs that are designed for and enjoyed by large numbers of students.

Not many miles distant from Athens, and suitable as weekend diversions, are the attractions of four of the state's most scenic areas—Dow Lake, just east of Athens; Lake Hope, in the heart of the Zaleski State Forest; the caves and gorges of the Hocking Park area; and Burr Oak Lake near Glouster, Ohio.

The 160 acre Dow Lake, within a 2,000 acre state park, will be used extensively by the university for outdoor education, group camping, aquatics, boating, and for research projects in conservation and natural resources.

STUDENT ACTIVITIES AND ORGANIZATIONS

SOCIAL POLICY

The students, faculty, and administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice anywhere among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who come to the University with varying backgrounds and social interests should enrich the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

CAMPUS AFFAIRS COMMITTEE

The Campus Affairs Committee is the official executive committee of extracurricular life, recognized and authorized by the President. It corresponds to the academic executive board of which the President is chairman. The two personnel deans, Dean of Men and Dean of Women, are the administration's permanent representatives on the committee and serve as co-chairmen, alternating annually as presiding officer. In addi-

tion to the two personnel deans, four faculty members, two men and two women, are appointed for three-year terms by the President. The five student members are elected each year. All of the Campus Affairs Committee student members are on the committee by virtue of their positions; namely, the president and two vice presidents of the Student Council elected by the campus at large, and the presidents of the Women's League and the Men's Union.

The Campus Affairs Committee is held responsible by the President for extracurricular policies, for allocation of the non-athletic portion of the student activity fee, for final decisions relative to new organizations on campus, for those activities growing out of student life which affect campus and public relationships, for the jurisdiction over rules and regulations in which both men and women are involved, and for any other matters which the President may refer to it.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is an organization that includes among its purposes the fostering of a spirit of unity and loyalty to Ohio University and the coordination of all campus social and extracurricular activities.

The Council is composed of the indicated officers or elected representatives of the following organizations:

PRESIDENT OF STUDENT COUNCIL	INTERFRATERNITY COUNCIL
WOMEN'S VICE PRESIDENT OF STUDENT COUNCIL	EAST GREEN COUNCIL
	INTERDORM COUNCIL
MEN'S VICE PRESIDENT OF STUDENT COUNCIL	PANHELLENIC ASSOCIATION
	PRESIDENT OF THE SENIOR CLASS
MEN'S UNION GOVERNING BOARD	PRESIDENT OF THE JUNIOR CLASS
WOMEN'S LEAGUE	PRESIDENT OF THE SOPHOMORE CLASS
CAMPUS RELIGIOUS COUNCIL	PRESIDENT OF THE FRESHMAN CLASS

The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly-enrolled woman student. The Women's League shares the Student Government Room in the Ohio University Center. The activities sponsored by the League consist of a Freshman Women's Party, receptions, teas, Co-ed Prom, and Leadership Conference. Each year the League awards a \$25 cash

prize to the woman with the highest scholastic average extending over two semesters. In addition, it grants a resident scholarship to one foreign student.

THE MEN'S UNION. The Men's Union is an organization to which every regularly-enrolled male student automatically belongs. The Men's Union sponsors the Registration Hop in September, the annual Men's Leaders' Banquet, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union makes an award of a gold medal to the man with the highest scholastic standing as well as five cups for group achievement.

PUBLICATIONS

The *Ohio University Post*, the student newspaper, is published four times a week. *The Athena*, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in the Ohio University Center.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, and business and editorial management. Students are encouraged to make application for the various positions on the publications staffs through the respective editors and business managers.

There are also a number of salaried positions on both publications for qualified individuals. Applications for these positions are filed with the Dean of Men or the Dean of Women at certain announced times. The Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

Sphere is the Ohio University literary magazine. Issued annually or semi-annually, it publishes student poetry, fiction, essays, and photography. It has a considerable campus circulation and is widely exchanged with student literary magazines from other schools. The magazine is managed by students and cooperating faculty members.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre serves both the University and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of four plays annually are managed, under faculty supervision, by students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts open to all students. In addition to the regular program of plays, a musical comedy is produced each year in cooperation with the School of Music and the Fine Arts Council.

THE UNIVERSITY PLAYSHOP. The University Playshop is a producing group comprised principally of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playship productions are open to all students in the University. Playshop produces the "Great Play" series. Each year two full-length plays are given as a part of a four-year cycle designed to be representative of each of eight periods in the history of drama from the classical Greek and Roman to the American Theatre of the early nineteen hundreds.

THEATRE WORKSHOP. The workshop is a producing organization designed especially for freshmen and sophomores who have an interest in theatre and a desire to participate actively in plays. It is open to all students. Bills of one-act plays and new scripts are presented from time to time during the academic year.

THE OHIO VALLEY SUMMER THEATRE. The summer theatre, a joint project of the University and the Community of Athens, produces six plays each season and provides an opportunity for some 20 to 30 selected students to work and study full time in the theatre. Faculty members and townspeople work together with students in all phases of production.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Numerous opportunities for participation are provided by an extensive program of local practice debates, together with frequent intercollegiate debates both in tournaments and before audiences.

FIRST-YEAR DEBATE. First-year debate is open to freshmen and to upperclassmen who have not had previous experience in intercollegiate debate. Discussion meetings and practice debates are held on the question and selected teams take part in an intercollegiate first-year debate tournament.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

INTERPRETATION CONTEST. Each year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

TELEVISION. Closed circuit television equipment is available for laboratory and experimental work. Students enrolled in television courses are given practical experience in camera operation and the techniques of direction and production.

RADIO STATIONS WOUB-AM and WOUI-FM. Ohio University maintains laboratory stations WOUB and WOUI. WOUB, the 100 watt AM station, broadcasts on 1340 kc and has a range of approximately 30 miles. It broadcasts 16 hours a day, every day of the year. The University stations are non-commercial and educational. They provide radio students with practical experience in all aspects of broadcasting. Most of the responsibility for the operation of the stations and the preparation and production of the programs is in the hands of advanced students who work under close faculty supervision. In addition to the regular schedule, special events such as football games, lectures, and musical programs are broadcast through remote facilities of the stations. Many of the programs are beamed specifically to the citizens of Athens and the county, and are designed to acquaint them with the activities carried on in the entire University.

MUSIC ORGANIZATIONS

Membership, with or without academic credit, is open to all qualified men and women of the various schools and colleges of the University.

THE UNIVERSITY CHORUS. A large chorus of mixed voices which performs works from the standard choral repertoire. The Concert Choir, an organization of 30 singers, is selected from the membership of the University Chorus.

THE UNIVERSITY MEN'S GLEE CLUB. Among the activities of the club are several concerts each year on the campus and participation in various traditional events. Occasional tours and radio broadcasts are scheduled.

THE UNIVERSITY WOMEN'S GLEE CLUB. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

THE UNIVERSITY BANDS. The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group; and the football Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band.

THE UNIVERSITY SYMPHONY ORCHESTRA. At present the orchestra has a complete, well-balanced instrumentation of seventy. Several concerts, using the standard symphonic repertoire, are given on the campus during the year and trips to near-by cities are occasionally made. Membership, either with credit or as an extracurricular activity, is open to all qualified men and women of the various schools and colleges of the University.

RELIGIOUS ORGANIZATIONS

YWCA. The Y.W.C.A. is the campus religious organization for women. Its program includes social service activities in the Children's Home, State Hospital for the Insane, mining centers in Athens County, and with children at the Salvation Army. A Newcomers Party for Freshmen women, regular monthly meetings and social functions are also a part of the program.

Under the direction of the Y.W.C.A. the pledges of the Greek-letter sororities participate in an annual original theatrical production which is known as "The Prep Follies." The income from the production is used in support of the Y.W.C.A. program.

YMCA. The Y.M.C.A. provides an all-campus religious activity for men. It includes a broad program of religious, social, and service functions. Discussion sessions, personal counseling, and worship services are integral parts of the Y.M.C.A. schedule.

The religious welfare and interests of students are fostered by various organizations sponsored by the churches of Athens or church-affiliated groups. See "Religious Societies" below.

CAMPUS RELIGIOUS COUNCIL. Representatives of the religious organizations constitute the Campus Religious Council. This council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group.

RELIGIOUS SOCIETIES

These organizations are sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities.

BAPTIST-DISCIPLE STUDENT FELLOWSHIP (Northern Baptist-Disciple men and women)

BAPTIST STUDENT UNION (men and women)

CANTERBURY CLUB (Episcopal men and women)

CHRISTIAN SCIENCE CLUB (men and women)

HILLEL FOUNDATION (Jewish men and women).

INTERVARSITY CHRISTIAN FELLOWSHIP (non-sectarian, men and women)

KAPPA PHI (Methodist women)

LUTHERAN STUDENT ASSOCIATION (men and women)

NEWMAN CLUB (Catholic men and women)

ORTHODOX CHRISTIAN FELLOWSHIP (Orthodox Christian men and women)

PHI CHI DELTA (Presbyterian women)

SIGMA THETA EPSILON (Methodist men)

WESLEY FOUNDATION (Methodist men and women)

WESLEY PLAYERS (Methodist men and women)

WESTMINSTER FOUNDATION (Presbyterian men and women)

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

These organizations confer membership in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well-rounded personality and leadership and service qualities in addition to academic achievement.

The first date is the founding date; the second the date the Ohio University chapter was established. Organizations are listed in the order of establishment at Ohio University.

TAU KAPPA ALPHA. 1908; 1916. Forensics (men and women).

PHI UPSILON OMICRON. 1909; 1921. Home Economics (women).

KAPPA DELTA PI. 1911; 1923. Education (men and women).

PHI BETA KAPPA. 1776; 1929. Liberal Arts (men and women).

KAPPA TAU ALPHA. 1910; 1929. Journalism (men and women).

EPSILON PI TAU. 1929; 1934. Industrial Arts Education.

PHI ETA SIGMA. 1923; 1936. Freshman Scholarship (men).

MORTAR BOARD. 1918; 1938. Student Leadership and Service (senior women).

ALPHA LAMBDA DELTA. 1924; 1941. Freshman Scholarship (women).

BETA GAMMA SIGMA. 1913; 1951. Commerce (men and women).

OMICRON DELTA KAPPA. 1914; 1951. Student Leadership and Service (men).

TAU BETA PI. 1885; 1953. Engineering (men).

PHI KAPPA PHI. 1897; 1956. All Academic Fields (men and women).

PI GAMMA MU. 1924; 1956. Social Science (men and women).

NATIONAL PROFESSIONAL, RECOGNITION, OR DEPARTMENT SOCIETIES

These organizations confer membership in recognition of achievements in specific fields of education or service.

Accounting (men and women) -----BETA ALPHA PSI

Art (men and women) -----DELTA PHI DELTA

Band (men and women) -----KAPPA KAPPA PSI

Band (women) -----TAU BETA SIGMA

Campus Service (men) -----ALPHA PHI OMEGA

Campus Service (men) -----CIRCLE K

Campus Leadership (women) -----CHIMES

Campus Leadership (men) -----J CLUB

Classical Languages (men and women) -----ETA SIGMA PHI

Commerce (men) -----DELTA SIGMA PI

Dramatics (men and women) -----NATIONAL COLLEGIATE PLAYERS

Education -----OHIO STUDENT EDUCATION ASSOCIATION

Education (graduate men) -----	PHI DELTA KAPPA
Engineering (men) -----	AMERICAN SOCIETY OF CIVIL ENGINEERS
Engineering (men) -----	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
Engineering (men) -----	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
Engineering (men) -----	OHIO SOCIETY OF PROFESSIONAL ENGINEERS
History (men and women) -----	PHI ALPHA THETA
Journalism (women) -----	THETA SIGMA PHI
Journalism (men) -----	SIGMA DELTA CHI
Management -----	SOCIETY FOR THE ADVANCEMENT OF MANAGEMENT
Military (men) -----	ARNOLD AIR SOCIETY
Military (men) -----	PERSHING RIFLES
Military (men) -----	SCABBARD AND BLADE
Music (women) -----	SIGMA ALPHA IOTA
Music (men) -----	PHI MU ALPHA
Music (men and women) -----	MUSIC EDUCATION CONFERENCE
Photography (men and women) -----	KAPPA ALPHA MU
Physics (men) -----	AMERICAN INSTITUTE OF PHYSICS
Psychology (men and women) -----	PSI CHI
Radio -----	AMERICAN INSTITUTE OF RADIO ENGINEERS
Sociology (men and women) -----	ALPHA KAPPA DELTA
Speech (men and women) -----	SPEECH CORRECTION CLUB
Student Activities (men) -----	BLUE KEY

SPECIAL INTEREST SOCIETIES

Departmental and other organizations that are not affiliated with national groups.

ALLIANCE FRANCIASE (French)	KLUB SIELLA (Medical Technology)
ALPHA OMEGA UPSILON	LA TERTULIA
ARCHITECTURAL SOCIETY	METROPOLITAN CLUB OF OHIO U.
CAMERA CLUB	O. U. BAND
CHEMICAL SOCIETY	O. U. RADIO CLUB
CHILDHOOD EDUCATION CLUB	O. U. REPUBLICAN CLUB
CHI PSI OMEGA (Botany-Zoology)	O. U. TABLE TENNIS CLUB
CHI RHO BETA (Radio)	ORCHESIS (Dance)
DER DEUTSCHE VEREIN (German)	RIFLE CLUB
DOLPHIN CLUB (Swimming)	RUSSIAN LANGUAGE CLUB
EARTH SCIENCE CLUB	SABRE AIR COMMAND
FINNETTES (Swimming)	SECRETARIAL CLUB
FLYING "O" (Sports)	SOCIOLOGY CLUB
FOOTLIGHTERS (Dramatics)	SPANISH CLUB
GRADUATE CLUB	STUDENT PRESS CLUB
GREEN AND WHITE CHESS CLUB	SYMPHONY ORCHESTRA
HOME ECONOMICS CLUB	Varsity "O" (Sports)
INDUSTRIAL ARTS CLUB	VETERANS CLUB OF OHIO U.
INTERNATIONAL CLUB	WOMEN'S RECREATION ASSOCIATION
INTERNATIONAL FORUM	WOMEN'S TENNIS CLUB
JUDO CLUB	YOUNG DEMOCRATIC CLUB

SOCIAL FRATERNITIES

These self-perpetuating groups organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.

INTERFRATERNITY COUNCIL (MEN)*

- BETA THETA PI (1839)†—Beta Kappa Chapter, 1841
 DELTA TAU DELTA (1859)—Beta Chapter, 1862
 PHI DELTA THETA (1848)—Ohio Gamma Chapter, 1868
 PHI KAPPA TAU (1906)—Beta Chapter, 1909
 LAMBDA CHI ALPHA (1909)—Alpha Omega Chapter, 1918 (inactive 1937-1950)
 THETA CHI (1856)—Alpha Tau Chapter, 1925
 TAU KAPPA EPSILON (1899)—Alpha Beta Chapter, 1927
 PHI KAPPA (1889)—Psi Chapter, 1929
 PI KAPPA ALPHA (1868)—Gamma Omicron Chapter, 1930
 PHI EPSILON PI (1904)—Alpha Rho Chapter, 1933
 PHI SIGMA DELTA (1910)—Alpha Delta Chapter, 1948
 ACACIA (1904)—Ohio Trowel Chapter, 1949
 SIGMA CHI (1855)—Delta Pi Chapter, 1949
 ALPHA PHI ALPHA (1906)—Phi Chapter, 1950
 SIGMA NU (1869)—Zeta Mu, 1951
 SIGMA ALPHA EPSILON (1856)—Ohio Gamma Chapter, 1953
 PHI KAPPA SIGMA (1850)—Beta Zeta Chapter, 1953
 DELTA UPSILON (1834)—Ohio Chapter, 1955
 TAU GAMMA DELTA—Local, 1957
 CHI KAPPA NU—Local, 1957

PANHELLENIC ASSOCIATION (WOMEN)*

- PI BETA PHI (1867)†—Ohio Alpha Chapter, 1889
 ALPHA GAMMA DELTA (1904)—Zeta Chapter, 1908
 ALPHA XI DELTA (1893)—Pi Chapter, 1911
 CHI OMEGA (1895)—Tau Alpha Chapter, 1913
 ALPHA DELTA PI (1851)—Xi Chapter, 1914
 ZETA TAU ALPHA (1898)—Alpha Pi Chapter, 1922
 PHI MU (1852)—Delta Delta Chapter, 1927
 SIGMA KAPPA (1874)—Beta Upsilon Chapter, 1949
 ALPHA EPSILON PHI (1909)—Alpha Phi Chapter, 1951
 KAPPA DELTA (1897)—Gamma Eta Chapter, 1955
 THETA PHI ALPHA (1912)—Delta Chapter, 1957
 KAPPA ALPHA ALPHA (local), 1955

*Listed in order of establishment at Ohio University.

†Year of founding of national organization.

INDEPENDENT GROUP

This organization is for students who are not affiliated with Greek-letter social groups.

MEN'S INDEPENDENT ASSOCIATION, 1938

STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

BIDDLE HALL HOUSE COUNCIL
BOYD HALL HOUSE COUNCIL
BRYAN HALL HOUSE COUNCIL
BUSH HALL HOUSE COUNCIL
CAMPUS AFFAIRS COMMITTEE
CLASS, SENIOR
CLASS, JUNIOR
CLASS, SOPHOMORE
CLASS, FRESHMAN
EAST GREEN INTER-DORM COUNCIL
GAMERTSFELDER HALL HOUSE
COUNCIL
HOWARD HALL HOUSE COUNCIL
INTER-DORMITORY COUNCIL
INTERFRATERNITY COUNCIL
JEFFERSON HALL HOUSE COUNCIL
JOHNSON HALL HOUSE COUNCIL

JUNIOR PANHELLENIC ASSOCIATION
LINDLEY HALL HOUSE
ORGANIZATION
MEN'S UNION GOVERNING BOARD
O. U. CENTER DORMITORY COUNCIL
O. U. CENTER PROGRAM BOARD
PANHELLENIC ASSOCIATION
PERKINS HALL HOUSE COUNCIL
READ HALL HOUSE COUNCIL
SCOTT QUAD COUNCIL
SHIVELY HALL HOUSE COUNCIL
STUDENT COUNCIL
TIFFIN HALL HOUSE COUNCIL
VOIGT HALL HOUSE ORGANIZATION
WASHINGTON HALL HOUSE COUNCIL
WOMEN'S LEAGUE ASSEMBLY
WOMEN'S LEAGUE SENATE

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UNIVERSITY REGULATIONS

ADMISSIONS

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the University should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Students are accepted for admission to the University for the fall semester, the second semester which begins in February, and the summer sessions.

Application for admission consists of the presentation of an application blank filled in by the applicant, official transcripts of all high school or college credit, two small photographs of the applicant, a vaccination blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. These documents when submitted become the permanent property of the University and are never returned to the applicant.

The application blank for admission and the transcript of high school record may be sent in any time after the completion of the junior year and the applicant then will be given provisional acceptance or denial. Final admission is granted upon satisfactory completion of the secondary school course.

If the applicant is transferring from another university, he must request the registrar of that university to forward an official transcript of college record direct to the Director of Admissions, Ohio University.

It is important to get all entrance credentials to the Director of Admissions early enough so that the applicant can be informed concerning his admission and the opening of the session he wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the University. For the fall semester, applications are usually not accepted after September 1 and for the second semester, after January 10.

SUBJECTS IN HIGH SCHOOL. Because Ohio University accepts graduates of first-grade high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, the following is suggested as a reasonable minimum distribution. This distribution meets the specific University College requirements (see page 76) and prepares the student for the pursuit of any curriculum in the University:

English	3 or 4 units
Foreign language	2 units

Social sciences	2 units
(One of which should be United States history and civics.)	
Laboratory sciences	2 units
(Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements. Prospective engineering students should take chemistry and physics.)	
Algebra	1 unit
Plane geometry	1 unit
(Prospective engineering students should take advanced algebra, solid geometry and trigonometry.)	
Electives	4 or 5 units
Total	16 units

THE TESTING PROGRAM. Each new student is required to take the college ability test. A notice of the date, place and hour is included in his admission credentials. A student who fails to take the college ability test at the appointed time, or who applies too late to take the test at the appointed time is required to take the test at a later date and to pay an additional fee of \$2. A student transferring to Ohio University from another college is not required to take the test if he has had the Ohio State Psychological Examination or American Council Examination at that college and the record of the test is on the transcript from the college.

In addition to the college ability test, an English placement test, a reading examination and a mathematics achievement test are administered to all freshmen. Additional information regarding the testing programs is given under the heading "Testing and Vocational Counseling Service," page 21, and "University College," page 76.

RESIDENTS AND NONRESIDENTS OF OHIO. The scholastic requirements for admission and the general registration fee for non-residents of the State of Ohio are higher than for residents of the State.

1. No student shall be considered eligible to register in the University as a resident of the State of Ohio unless he has had bona fide domicile in the state twelve consecutive months before he registers at the University. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.
2. No student whose domicile was outside the State of Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him that his former domicile has been abandoned and a new domicile

established in the State of Ohio and maintained for at least twelve consecutive months. No application for residence of one whose legal residence is not determined by his parents or legal guardian can be considered until the applicant is 22 years of age.

3. No student whose domicile was outside the State of Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2.
4. *Minors*: The domicile of a student who is a minor shall be considered the same as that of his parents or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a nonresident minor, the latter shall be considered a nonresident until twelve months after the appointment.
5. *Wives*: A wife shall be classed as a resident student for registration purposes if her husband has had a bona fide residence in the State of Ohio for a period of at least twelve months preceding her registration and is a resident of the state at the time of her registration.
6. *Losing Ohio Classification*: A student, who at time of entrance is classified as an Ohio resident, loses his Ohio classification if his legal residence is changed to another state, but not until one year has elapsed.

APPLICANTS FROM OHIO (High School Graduates). All residents of Ohio who are graduates of approved high schools and who have not attended another college are eligible for admission to the University. An applicant, however, who ranks in the lower half of his graduating class and, in addition, has a low expectancy of success in college, will be admitted *on special warning*. This status for the low-in-class graduate will be determined on the basis of freshman test scores, pattern of high school subjects, and high school recommendations. The decision as to the *special warning* status will be made during the pre-college counseling program held in midsummer which every applicant graduating in the lower half of his high school class must attend. Many students required to participate in the pre-college counseling program will avoid the special warning status by means of satisfactory test scores. If, for an acceptable reason, a student does not attend the pre-college conference, it is necessary for him to complete the tests by individual appointment. Completion of the tests at an authorized time is required for admission and enrollment.

For further statements relative to students admitted on special warning, see page 79.

In the case of a veteran of military service, Ohio University recognizes a diploma issued by an accredited Ohio high school on the basis of the General Educational Development Tests. The applicant,

however, may be accepted only for a two-year terminal program if his test scores are low.

APPLICANTS FROM OHIO (Transfer Students.) Any applicant, a resident of Ohio, who has attended another college and who desires to transfer to Ohio University is considered for admission if he has a point-hour ratio of 2.0 (C) on all hours *attempted*, and if he is eligible for good standing at Ohio University.

APPLICANTS FROM OUT OF THE STATE. An application from an out-of-state student is considered if the applicant ranks in the upper half of his graduating class in an approved high school.

A veteran who ranks above the 50 centile on the General Educational Development Tests (High School Level) may be considered for admission.

A transfer student from out of the state who makes application for admission to any college of the University is considered for admission if he has a point-hour ratio of 2.0 (on the Ohio University grade-point system) on all hours *attempted* in all of his previous college work, and if he is eligible for good standing at Ohio University.

APPLICANTS FROM FOREIGN COUNTRIES. An applicant from a foreign country makes application for admission on a special foreign student application blank. This application form is obtained by writing to the Director of Admissions, Ohio University, Athens, Ohio. If the applicant has need for scholarship aid he so indicates on the application form.

No application will be considered until complete *official* credentials from all secondary schools, colleges, universities, normal schools, or technical schools attended have been received. These should indicate the degree or diploma received, if any, all subjects studied, and grades, marks, or standing achieved in examinations. If original documents are issued in native language, the original documents or certified copies thereof shall be accompanied by *official* translations in the English language. Three letters of recommendation should be submitted, including one from an administrative officer of the last educational institution attended and one from a teacher.

English Certification. The application should be accompanied by an English certification signed by a professor of English, cultural relations attache, a diplomatic or consular official of the United States, or a delegated representative of one of these persons, certifying that the applicant speaks English fluently and understands English sufficiently well to profit by study in a university in which English is used exclusively. It is essential that a foreign student be able to understand directions and lectures in English and express his thoughts clearly in spoken English immediately upon arrival at the University. Ohio University

reserves the right to require the taking of an English language proficiency test under the auspices of such an agency as the English Language Institute of the University of Michigan, Ann Arbor, Michigan, or the American-Korean Foundation which has offices in New York City and Seoul.

Health Certification. A statement signed by a licensed physician certifying as to the general state of the student's health and a smallpox vaccination certificate should be submitted along with the application for admission. The medical forms are provided by Ohio University and must indicate that the applicant is:

1. Free from contagious or communicable disease.
2. Able physically and mentally to perform satisfactorily as a full-time student.
3. Sufficiently stable, emotionally, to make adjustment to an American university environment.
4. Vaccinated against smallpox.

GRADUATE STUDENTS. For admission to the Graduate College, see page 160.

TRANSFER FROM ANOTHER GRADUATE COLLEGE. An applicant for admission to the Graduate College of Ohio University who has attended a graduate college elsewhere must have a point-hour ratio of 3.0 (B) on all graduate courses attempted. For acceptance of credits see catalog page 162 under "Credit and Residence."

SPECIAL STUDENTS. A person who has completed a minimum of 15 units of high school work and is not planning to work toward a degree or diploma at Ohio University, or a mature person (ordinarily 21 years of age or over) not planning to work toward a degree or diploma, may be accepted as a *Special Student*. Such a person must file an application for admission to the University and clear through the Admissions Office. He is permitted to carry a full class load and may take any course for which he is qualified.

A person may register as a *Special Part-Time Student* for a maximum of six semester hours of work a semester without clearing through the Admissions Office. Such a student, however, is not permitted to retain this special status after he has accumulated 32 semester hours of credit at Ohio University or its Branches; or is within 32 semester hours of having sufficient credit for a degree or diploma. A student

who has attended another college or university must be eligible for good standing at Ohio University.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the Director of Admissions and University Examiner for any course listed in the current catalog in which the student desires credit without taking the course in class, provided the course lends itself to an examination. An advanced standing examination may not be taken to alter a passing grade at Ohio University. The application must be approved by the chairman of the department and the dean of the college in which the student is classified. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$5 is charged for each semester hour.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a point-hour ratio of 2.0. If a student who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is used to compute the point-hour ratio.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute when end-of-the-course examinations are passed or when courses are taken in correspondence with accredited colleges.

For training completed by veterans in training units other than those offered in the colleges, the recommendations made for college credit by the American Council on Education are followed in most cases.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training with commission will be awarded to a student who, after completing his military service, enrolls in the University. This credit is granted when the student presents a certified copy of his separation papers showing honorable discharge and a minimum of six months of service. A deduction in the amount of credit allowed is made for those students who received high school credit for military service or who have had R.O.T.C. credit in college.

FEES

Official enrollment is completed when all fees have been paid. Fees are payable at the Cashier's Office at registration time. Checks and money orders should be drawn in favor of Ohio University in the exact amount of the fees. If paid by mail, by the parents, they should be sent to the student in whose name the account is carried. It is important that the student retain his receipt for it must be presented at the time the activity card is issued.

Payment of fees is a prerequisite to official enrollment, and all students should have sufficient funds to cover these expenses. Postdated checks will not be accepted. Checks issued to the University and not paid on presentation to the bank, will automatically cancel any receipts given and result in the assessment of penalties.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog.

REGISTRATION FEES	Resident	Non-
The Semester:	of Ohio	Resident
Comprehensive fee for load of 12 to 18 hours, inclusive -----	\$115.00	\$240.00
Includes the general registration fee of \$75.00, the student activity fee, student service fees such as health, library, and testing, and course and laboratory fees. Excludes fees for private instruction as in music and bowling, which are listed in the course descriptions.		
Extra fee for each semester hour in excess of 18 hours -----	8.00	20.00
Fee for each hour for load of 7 to 11 hours, inclusive -----	10.00	20.00
Fee for each hour for load of 1 to 6 hours, inclusive -----	8.00	20.00
The fee for 1 to 6 hours does not carry with it the privilege of a student activity card or the use of the Health Service.		
Auditors pay fees in full as above.		
The Summer Session:		
Fees for each term are proportionate amounts of the semester fees. See Summer Session bulletin for details.		
Correspondence Study:		
Registration for each semester hour -----	9.00	10.00
Extension Class:		
Registration fee, each semester hour -----	10.00	22.00
Fee is increased if class is organized with an enrollment below the required quota.		

MISCELLANEOUS FEES

Certificate of completion -----	\$ 2.50
Change of course or change of college -----	2.00
Entrance Tests, when not taken at the designated time -----	2.00
Duplicate official forms, fee receipts, grade report, etc -----	1.00
Examination for advanced standing, each semester hour -----	5.00
Graduation—	
Application for degree -----	10.00
Application for Associate in Arts diploma -----	5.00
Re-application -----	2.00
Penalty for late application -----	5.00
Diploma mailing fee for those absent from commencement -----	2.00
Late registration or late payment of fees—\$3.00 Minimum,	
\$10.00 Maximum -----	3.00-10.00
R.O.T.C. Deposit Fee -----	20.00
Dissertation Microfilming -----	25.00
Thesis Editing and Abstract Printing -----	5.00
Dissertation or Thesis Binding, Each copy -----	2.50
Transcript of record, after first transcript request -----	1.00
Group requests of five to ten copies, \$5.00; five to twenty	
copies, \$10.00 -----	
Vocational Counseling Fee for students and prospective students -----	5.00

REFUND OF FEES. Voluntary and official withdrawal from the University entitles the student to a refund of 80% of the comprehensive fee if he withdraws within the first and second weeks of a semester, and 50% if he withdraws within the third and fourth weeks. A week is interpreted to mean a calendar week and ends at noon on Saturday.

If a student withdraws from the University before he pays his registration fees or before he completes the payment for his registration fees, he is considered indebted to the University for the amount determined according to the refund regulations.

EXPENSE ESTIMATE

The following is an estimate of expenses for one eighteen-week semester at Ohio University:

Comprehensive registration fee* -----	\$115.00
Rent of room in dormitory (average rental) --	117.00
Board in dormitory -----	216.00
Total for semester -----	<u>\$448.00</u>

The estimate does not include the cost of books, which amounts to approximately \$25 a semester for the average student.

The real differences in the costs of attending the University are to be found in such personal maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests.

The University does not make provision for handling student accounts, this service being available through local banks.

*The registration fee for a student who is not a resident of Ohio is increased by the nonresident fee. See "Fees and Deposits," page 58.

REGISTRATION

Details concerning the registration procedure are given in the schedule of classes which is obtained at the office of the Registrar before each registration.

PERMITS TO REGISTER. A permit to register which shows the hour and place for advising and registration must be obtained for each registration. A student enrolled in the University obtains his permit in accordance with regulations announced by the Registrar.

A former student obtains a permit to register by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives his permit to register by mail with other admission material.

STUDENT LOAD. A full-time student normally carries a minimum of 15 semester hours. A student on warning or probation carries a maximum of 14. A student must obtain approval from the dean of his college to carry less than the minimum prescribed by his college or more than 17 semester hours (19 if registered for an engineering degree), or more than 14 if on warning or probation. Specific regulations are given in the respective college sections of the catalog.

AUDITING PRIVILEGE. At the time he is advised a student may receive permission to audit courses as part of his load. The courses must be marked "Audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Subsequent to registration, changes from audit to credit or from credit to audit are made by change order during the period when changes are permitted.

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the University and who expects to pursue a degree or a diploma course is given rank according to the number of semester hours completed: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

All other students are unclassified. If an unclassified student has completed 24 or fewer semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiencies or is regularly admitted to a degree or diploma course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to add a course, withdraw from a course, or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar.

A course may not be added after the close of the third week of a semester.

When a student withdraws from a course by change order his grade is recorded W; and the instructor destroys the class card on receipt of a notice from the Registrar.

A course cannot be dropped by change order by a student in a degree college after the third week and by a student in University College after the close of the eighth week of the semester, or in the case of a course that has a late starting date, one week after the starting date.

The following procedure is authorized for making a change order: The student secures a change order form in the dean's office, and then consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he signs the change order form. If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean. The change order form is returned to the dean of the college in which the student is enrolled for approval. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee of \$2 if it was assessed by the dean.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

Exceptions to the above regulations are made only with the approval of the Executive Committee.

The dates marking the close of each period mentioned are shown in the calendar.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

CHANGE OF COLLEGE. Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled and should be made before registration. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee of \$2 has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL FROM THE UNIVERSITY. Application is made on a withdrawal form obtained in the office of the dean of the college in which the student is registered. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "Fees."

"W" is recorded for a University College student who is granted a withdrawal from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks; and on receipt of notice from the Registrar, the instructor destroys the class card. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses. The University reserves the right to ask a student to withdraw at any time when it considers such action to be in its best interests.

CREDIT. All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule issued by the Registrar.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

REGISTRATION OF MOTOR VEHICLES

University policy and regulations require that all students operating automobiles, motorcycles, or other types of motor vehicles, including students who are residents of the city of Athens, must register these vehicles and pay a \$2 registration fee during registration at the beginning of each semester. In turn, each student will be given a windshield sticker, upon registration and payment of fee, which will entitle him to park in the areas designated. Failure to display the sticker on the lower right-hand corner of the windshield will result in a fine of \$3.

If a vehicle is brought to the campus after registration day, it must be registered within twenty-four hours at the Office of the Dean of Men. Persons violating this regulation will be fined \$10 in addition to the required registration fee, and it will be counted as a first offense.

SCHOLARSHIP REGULATIONS

THE GRADING SYSTEM. At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Points are assigned for each semester hour of credit earned, according to the following grading system:

Letter	Grade	Explanation	Points
			Per Semester Hour
	A	Very high	4
	B	High	3
	C	Average	2
	D	Passing but low	1
	F	Failure	0*
	I	Incomplete	0*
	W	Withdrawn	-.**
	WP	Withdrawn Passing	-.**
	WF	Withdrawn Failing	0*
	Cr. ***	Credit without grade	-.**

* Hours are included in total hours attempted.

** Hours are not included in total hours attempted.

*** Not used at Ohio University for regular courses. Recorded if a part of a transferred record.

THE POINT-HOUR RATIO is the basis for determining scholastic standing. It is obtained by dividing the total number of points earned by the total number of semester hours undertaken, excluding courses in which the marks "W", "WP", or "Cr." are recorded (those with ** in the table).

"W" is recorded for a University College student who is granted a withdrawal from a course or from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks. University College students may not withdraw from a course after the close of the eighth week, and degree college students after the third week. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

Unofficial withdrawals result in "F" grades.

"I" is given to a student who, in a course in which he is doing passing work, has a relatively small part of the session's work not completed because of illness or other reason beyond his control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which he is enrolled. Two methods are available to the student for removing an "I" grade from his

record: by arranging with the instructor to complete the work of the course within six weeks after the opening of the next semester he is in residence, or by re-registering for the course and completing it with a passing grade. An extension of time for the removal of an "I" may be made by the dean of the college.

POINT-HOUR RATIO (SCHOLASTIC AVERAGE). Except for hours of "W," "WP," and "Cr.," the entire record including each grade in each course attempted, is used to determine probation status, eligibility for honors, and class ranking, and for all purposes where a cumulative point-hour ratio is requested.

MINIMUM STANDARD FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student, with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

REPEATING A COURSE. When a course is repeated, the last grade becomes the grade in that course for graduation purposes. Previous grades in repeated courses continue to be used to determine the cumulative point-hour ratio. A course may not be repeated after a more advanced course in the same field has been passed. A course passed may not be repeated in the semester in which the student is a candidate for graduation.

GRADE REPORTS

STUDENTS IN THE UNIVERSITY COLLEGE. At the end of the seventh and thirteenth weeks, grades for University College students are reported to the Registrar. The grades are available to the student through his counselor. The Dean of the University College sends a notice of warning at the close of the seventh week to the student who has a point-hour ratio below 1.5. At the close of the thirteenth week, a similar point-hour ratio results in a notice of warning being sent to the student *and his parents*.

A student who is on probation will have a notice of warning sent to his parents both at the seven and thirteen week grading periods if his point-hour ratio is below 2.0.

A final grade report is mailed to each student immediately after the close of a session.

STUDENTS IN DEGREE COLLEGES. At the end of the seventh and thirteenth weeks instructors report to the student his standing in class. His dean receives a report if he has F or low D in a course. If at the end of a session, a degree college student's cumulative point-hour ratio falls below 2.0 (C) but not low enough to place him on probation, a notice is sent to the student and to his parents by the dean of his college.

A final grade report is mailed to each student immediately after the close of a session.





HONORS

DEAN'S LIST. The Dean's List, compiled at the close of each session, includes the names of all freshmen who have a point-hour ratio of at least 3.0 (B) on a minimum load of 15 semester hours of credit; and the names of all upperclassmen who have a point-hour ratio of at least 3.3 on a minimum load of 15 semester hours of credit.

HONORS DAY. The Honors Day Convocation, held each spring, is for the purpose of honoring students who have attained high scholastic standing. The names of all undergraduate students who have attained a point-hour ratio of 3.0 (B) on a minimum total of 15 semester hours at Ohio University, and who in their last semester preceding Honors Day completed a minimum of 15 semester hours, are listed in the Honors Day Program. Students with transferred credits who have the necessary standing at Ohio University as well as on their cumulative record are also honored.

Graduate students are honored if they have attained a point-hour ratio of 3.5 (B+) on a minimum of 12 semester credit hours earned in residence, and if in their last semester preceding Honors Day they completed a minimum of 9 semester hours.

The student who attains these honors will have an indication of them on his record and on the transcript of his record.

GRADUATION. The name of the recipient of the bachelor's degree is distinguished in the commencement program by the notation "with honor" if his point-hour ratio on all hours attempted is 3.0 to 3.5, and with "high honor" if 3.5 or above. The name of one with transferred credits is similarly distinguished if both his Ohio University and total record meet the requirement.

PROBATION REGULATIONS

GRADE-POINT DEFICIENCY. A student whose total grade points is less than twice the number of hours attempted has a grade-point deficiency. A student's grade-point deficiency is found by taking two times the number of hours attempted minus total grade points accumulated. Thus, a student who has attempted a total of 31 semester hours and earned 48 grade points has a grade-point deficiency of 14 ($2 \times 31 - 48 = 14$).

At the close of each session the record of every student is reviewed. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation or dropped from the University. Action taken as the result of poor scholarship is indicated on the grade report which is mailed to the student. A notice is also sent by the Registrar to the student's parent or guardian. In general, action will be taken in accordance with the following regulations:

PROBATION. A student who has attempted fewer than 30 hours is placed on scholastic probation when his grade-point deficiency is greater than half the number of hours attempted. A student who has attempted 30 hours or more is placed on scholastic probation when his grade-point deficiency is greater than 15 grade points.

PROBATION REMOVED. If a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than half the total hours attempted, probation is removed. If a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 15 grade points, probation is removed.

PROBATION CONTINUED. A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible to be removed from probation or he will be dropped from the University.

DROPPED FROM THE UNIVERSITY. A student on probation is dropped from the University if his grade-point deficiency has increased and he is not eligible to be removed from probation.

Any student whose grade-point deficiency at the close of any session exceeds the number of hours attempted will be dropped from the University whether or not he has been on probation. A student may be dropped even though he has not previously been on probation. See **SPECIAL ACTION**.

Normally a petition for reinstatement will not be considered until a year after the student was dropped. He presents the petition to the dean of his college for consideration by the Executive Committee.

A student who is dropped may not enroll for courses on campus, in a Branch, or in correspondence or extension courses conducted by Ohio University until he is reinstated by the Executive Committee.

SPECIAL ACTION. In individual cases the Executive Committee may drop, impose or remove probation, or grant continuation or reinstatement if the circumstances appear to justify special action.

TRANSCRIPTS

A photograph of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one copy free of charge. A transcript requested after the free copy has been issued costs \$1. For a group request of from five to ten copies the fee is \$5; for five to twenty copies, \$10. The transcript fee must accompany the transcript request.

A transcript carries a statement of good standing except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation has his status indicated on his transcript.

CLASS ATTENDANCE AND ABSENCES

A student is expected to attend all scheduled meetings of his classes and all examinations.

REGULATIONS PERTAINING TO CERTIFIED ABSENCES. If because of illness or other authorized reasons a student is absent, it is his responsibility to obtain the appropriate certificate of absence and to present it to his instructor immediately upon his return to class. Qualifying for a certificate does not exempt a student from class work. In making up work he must meet the requirements prescribed by the instructor.

The following two types of certificates are available to the student and are honored by instructors.

Certificate of absence due to illness: This is given by the Health Service to a student who has received treatment at the clinic; who has been a patient in the infirmary, or who presents evidence of illness from a physician.

Certificate for other authorized reason: This is obtained from the Dean of Men or the Dean of Women for an absence resulting from serious illness or death in the family; a wedding in the immediate family; trips in connection with authorized educational and university activities; other educational trips, appointments, meetings, mandatory tests (as for example, the selective service test), mandatory court appearances, approved extracurricular activities, and any occurrence which can be classified as an act of God.

Extended group educational trips that make it necessary for students to be absent from classes require the approval of the dean of the college or the director of the division under whose auspices the trip is made. The dean or director certifies the list of participants to the Dean of Men or Dean of Women.

ADDITIONAL REGULATIONS. Apart from the requirements of the following additional regulations, all *uncertified* absences are handled by the instructor concerned.

Instructor's Attendance Reports: Instructors will submit absence reports to the Dean of Men or the Dean of Women for students who are frequently tardy, frequently absent on any one day of the week, absent from so many meetings that academic work is affected, or absent from all meetings of a class for one week. This will enable the Deans of Men and Women and the dean of the student's college to follow up irregular and excessive absences because it is often the first indication that a student is in trouble outside the classroom. Upon the recommendation of the personnel dean to the dean of the college, a student may be dropped from the University because of excessive absence.

Class Probation and Penalties: At the discretion of the instructor a student may be placed on class probation for uncertified absences. Instructors request the Dean of Men or the Dean of Women to place the student on class probation. The Dean of Men or Dean of

Women notifies in writing the student, the parents, the Registrar, the dean of the student's college, and the instructor who made the request. After being placed on probation an additional uncertified absence will result in the student receiving "F" in the course. The "F" is reported to the Registrar immediately with the reason indicated on the class card.

Uncertified Absences Before and After Vacations: Each instructor will report all absences from class on the two days preceding and following official vacation periods for the assignment of penalty absences. A penalty of one semester hour is added to the requirements for graduation for an uncertified absence from the student's last scheduled class preceding a vacation and his first scheduled class period following a vacation. If a student is absent from all periods on the day immediately preceding a vacation and his last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an official vacation. A total of four semester hours may, therefore, be added to an individual's graduation requirements for absences incurred at any one holiday period.

Absence from Final Examinations: Certification for absences from examinations for the usual authorized reasons (family emergency, etc.) is obtainable from the appropriate personnel dean, or, in case of illness, from the Health Service. Application for absence for other reasons must be made through the academic dean and requires approval of the instructor concerned and the Executive Committee of the University.

Special Requests: If unusual circumstances not covered by these regulations make it necessary for a student to request absence he consults the dean of his college who will confer with the instructors concerned. Executive Committee action may be required at the discretion of the deans involved.

GRADUATION

APPLICATION. A candidate for graduation must make application in the office of the Registrar, and pay the application fee, not later than the date given in the university calendar for the session in which he plans to graduate. The application fee for a degree is \$10; for the Associate in Arts diploma, \$5. Application for graduation made after the time designated adds a penalty of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply for the session in which he plans to complete the requirements. The reapplication fee is \$2. The penalty fee of \$5 is added for late reapplication.

SCHOLASTIC AVERAGE FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only

the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday vacation, by the number of hours of repeated subjects, and by the number of hours in courses not allowed toward a degree by catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in physical activity courses.

A student who fails to graduate because of a grade-point deficiency may take, with approval of his dean, up to a maximum of 6 semester hours of work in correspondence, extension, or Branches of Ohio University to make up his deficiency. Work may not be taken at another college to make up this deficiency.

MAJOR AREAS OF STUDY. Requirements for majors and fields of concentration are outlined by the individual colleges. A transfer student whose transcript shows the completion of most or of all the courses in a major area of study may be required by the dean of his college to satisfy the departments concerned that he has met Ohio University's standards in that area before it is recognized for purposes of graduation.

PROFICIENCY IN ENGLISH. A degree student who failed to make a grade of A or B in English 4 is required to take the English proficiency test the first time it is given after his record shows a total of 45 semester hours of credit. A student who transfers to Ohio University in his junior or senior year takes the test during his first semester in residence, and one who transfers in his sophomore year takes the test after his record shows a total of 45 semester hours of credit, regardless of the grade he received in freshman English in another school. Any transfer student who must take English 3 at Ohio University to complete his freshman composition requirements may be excused from the proficiency test if his grade is A or B.

The proficiency test is offered each semester. Dates are shown in the calendar. It consists of a few paragraphs of prose, written on a subject chosen by the student from a list of subjects given to him at the test. The papers are later marked Passed or Failed.

The student who fails the test will be required to repeat English 3 during the following semester. If the student then makes a grade of A or B in this semester of repetition, he is excused from the proficiency test. A student who makes a grade below B on repetition must take the proficiency test.

The student who fails to take the proficiency test at the scheduled time will be required to take a make-up examination.

PHYSICAL EDUCATION. *Men students* have a flexible physical education requirement. The normal requirement of two semesters may be reduced by passing physical proficiency and sports tests which are offered near the close of each semester and summer session. After completing one semester with credit, the student may elect to try physical proficiency tests or continue to register for additional credit. Having passed testing standards prescribed by the Division of Physical Education and Athletics, the student is excused from further requirement.

Men classified as *veterans* of the armed forces are not held to the one-semester rule and, therefore, may take proficiency tests on entrance to the University.

Women students are required to complete two semesters with credit in physical education.

Men and women may, however, elect additional semesters in physical education service courses and, subject to exceptions listed by the colleges, may use four hours of this credit toward degree requirements.

See "Service Courses" in "Courses of Instruction" for regulations governing service course credit toward the degree requirement.

EXCEPTIONS, EXCUSES, AND DEFERMENTS are allowed for both men and women as follows:

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over, provided he has completed the requirement up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive physical load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete before graduation the requirement he otherwise would have had to meet without deferment.

RESERVE OFFICERS' TRAINING CORPS. The Army and Air Force R.O.T.C. offers a two-year basic course and a two-year advanced course. Once either course is elected, completion of that course becomes a prerequisite for graduation, unless the student is relieved of this obligation by proper authority. R.O.T.C. credit does not increase the total semester hours required for most degrees, provided the student utilizes his curricular elective hours for this credit. See college sections, and "R.O.T.C. Division."

RESIDENCE. In general the minimum residence requirement for a degree or a diploma course is two semesters or the equivalent in summer sessions which should total not fewer than 30 weeks with the completion of a minimum of 30 semester hours. If a student spends the minimum of 30 weeks, or less than 45 weeks with the completion of less than 45 semester hours, in residence, the 30 weeks must be the final weeks before graduation.

If a student spends 45 weeks or more in residence with the completion of a minimum of 45 semester hours, his last residence may be reduced to 15 weeks with the completion of 15 semester hours.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence and scholastic requirements and who has completed all but 6 semester hours, or fewer, required for a degree. When this occurs a student may complete the final semester hours, 6 or fewer, at another institution, or by extension, correspondence or Branch study at Ohio University.

Credit earned at an Ohio University Branch, and Saturday and evening class credit may be used to satisfy the residence requirements in combination with one semester or several summer sessions. The number of weeks' residence for part-time students enrolled in Branch, Saturday, evening, and day classes is determined by the number of hours of credit allowed for the course. A student whose work has been exclusively at a Branch, is required to spend the last 15 weeks of residence on the Athens campus with the completion of a minimum of 15 semester hours.

Credit earned in the Extension Division, whether in extension classes or in correspondence study, does not count toward the fulfillment of the residence requirement.

IN ABSENTIA. In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. Application for graduation in absentia is made by a student in the office of the Registrar before he leaves the campus. To obtain his bachelor's degree a student

who has been approved for the senior-in-absentia privilege in an approved professional school must have completed a full year's work of the quality prescribed for the bachelor's degree at Ohio University, and be eligible for advancement without condition to the second year. The official transcript from the school, and the statement from the dean of the school certifying that he has satisfactorily completed the full year's work and is eligible for advancement without condition to the second year, must be in the office of the University Examiner, Ohio University, two weeks before the commencement date, or a notice of the last date it will be received prior to commencement must be sent.

A student graduating in absentia is excused from attending commencement exercises.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college, after he has been released or advanced from the University College, and may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the University. A student who does not complete the degree requirements within the usual three years spent in a degree college may be allowed to fulfill the same requirements at a later date, provided he completes them within seven years after his first enrollment in the University. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a point-hour ratio of 3.0 to 3.5 on all hours attempted is distinguished on the commencement program by the notation "with honor"; with 3.5 or above, by the notation "with high honor." A student with transferred credit is similarly distinguished if both his Ohio University record and his cumulative record meet the requirement.

A candidate who has successfully completed a program of study in honors work is, in addition, distinguished on the commencement program by the notation "with honors in -----," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give the superior student freedom to pursue the study of his chosen field as rapidly as his talents permit. The aims of the program include acquisition of knowledge in a chosen field, integration of knowledge of one field with that of related fields, development of the ability to carry on independent investigation and research, enhancement of skill in the written expression of the results of reading or investigation, and development of creative talents.

Students who have attained a point-hour ratio of 3.0 or better on all work attempted and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Application is made to the Honors Work Committee during the junior year or at the beginning of the senior year. The committee, with the

approval of the student's dean, assigns the student to an instructor who will serve as the student's adviser in honors work.

At the beginning of each semester, the student files with the committee a brief plan of his program of honors work for the semester. Near the close of the semester, he files with the committee a statement of work accomplished and a notation of any changes in plan. At the close of the senior year, a final essay, research paper, or completed creative project is submitted to the committee. At the end of each semester a grade for honors work is sent to the Registrar by the student's honors adviser. A student registered for honors work who at the end of any semester has not maintained a point-hour ratio of 3.0, or who has received a grade below B in his honors work, is dropped as a candidate for honors but receives course credit.

All general requirements for the degree sought by the student must be met either before or while the student is registered in honors work. The student may register for from three to eight semester hours of honors work each semester as a part of his student load. Normally, the student will be permitted to carry only one honors work project. In exceptional cases permission to enroll for more than one program may be obtained from the Executive Committee of the University.

Upon completion of the project a student whose adviser does not grant a grade of B or better is disqualified for honors in his field but retains course credit earned by his honors work. Final judgment on the projects of otherwise qualified candidates is made by the Honors Work Committee.

COMMENCEMENT. Degrees and diplomas are granted at the close of each session even though the session may not close with formal commencement exercises. Attendance at graduation exercises is required in academic costume. Students who have been granted permission to graduate in absentia are excused from attendance. Other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

A SECOND BACHELOR'S DEGREE. A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees (170 for two engineering degrees) with the requisite scholastic average, both on Ohio University work and on the total record when credit has been transferred from another school; and must have completed a total of 9 semesters of college work or its equivalent, with a minimum of three

semesters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges during the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. He may, for example, have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, he will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with the requisite scholastic average and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

THE UNIVERSITY COLLEGE

GAIGE B. PAULSEN

DEAN

BERNARD R. BLACK

ASSISTANT DEAN

Basic Preparation

for admission

to each of the

degree-granting

colleges

Two-Year Terminal

programs leading

to Associate in

Arts diploma

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College which concerns itself primarily with the problems of first-year students—their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs.

During the first week of the semester in which a student is first enrolled, designated as "Freshman Week," the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Various tests are given to assist students and their counselors in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University—its history and traditions, regulations, opportunities for development, and student activities and organizations. A copy of the "Orientation and Studies in the Freshman Year" bulletin is sent to each new student prior to his enrollment in the University. It includes the program for the week, giving the exact time and place of all events.

A Pre-College Conference in July provides an early opportunity to come to the campus for one day to complete the freshman tests, to learn the significance of the scores, and to confer with a faculty counselor and prepare a schedule of classes.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements are determined so as to complement the work done in high school and to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

Students who place low on the English Placement Test given all entering freshmen take Eng. 1, then complete Eng. 3-4 in their second and third semesters in the University. Hours earned in Eng. 1 are added to the requirements for graduation.

Students who demonstrate superior ability on the Placement Test will be registered in an Honor Section of Eng. 3.

2. Fundamentals of Speech—Speech 1.

3. Physical Education

For detailed statement concerning this requirement see page 70.

4. One year in each of two of the following groups:

In case a student has a specific requirement due to a high school deficiency, as in Humanities and Mathematics, the courses taken to meet these two requirements also meet the *two group re-*

quirement, or a course taken to meet one specific requirement also is counted as meeting one of the *two-group requirement*. In other words, a course or courses taken to meet specific requirements also apply toward the *two-group requirement*.

- A. *Humanities*: (a) Foreign language; (b) Humanities 7, 8—The Great Books (see “General Studies”); (c) Fine Arts 17-18—Introduction to the Fine Arts; (d) Phil. 1—Principles of Reasoning, and Phil. 2—Moral Philosophies.

Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

- B. *Mathematics*: Math. 1—Elementary Algebra, Math. 2—Plane Geometry, Math. 3—Intermediate Algebra, Math. 5—Freshman Mathematics, Math. 6—Analytic Geometry and Calculus I, Math. 9—Fundamentals of Mathematics, Math. 34—Mathematics of Finance, Math. 107—Elementary Statistics (taken by freshmen only following Math. 5 or 9).

Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra and Math. 2—Plane Geometry. Students who have had one year of algebra and no plane geometry take Math. 2. Math. 1 and Math. 2 are offered only in the Summer Session. Students are strongly urged to complete algebra and plane geometry in high school.

- C. *Natural Sciences*:

BIOLOGICAL—Biol. 1-2—The Living World (see “General Studies”); Bot. 3-4—General Botany; Zool. 3-4—Principles of Zoology.

PHYSICAL—Astron. 11-12—Elementary Astronomy; (Chem. 1-2 or (Chem. 3-4 and 99)—General Chemistry; Geol. 1-2—Elements of Geology; and Phys. Sci. 3, 4—The Physical World or Phys. 5, 6—Introduction to Physics.

Students with less than two full years of laboratory science in high school take a year in one science in the area in which no science was taken in high school, i.e., if Biological Science was taken in high school the requirement is in Physical Science. (High school courses such as general science and senior science are excluded). Exceptions to this requirement must be approved by the Dean of the University College.

- D. *Social Science*: Ec. 11-12—Principles of Economics; Geog. 3—Elements of Physical Geography; Geog. 4—World Regional Geography; Govt. 1, 2—American Government; Hist. 1, 2—Western Civilization in Modern Times; Psych. 1—General Psychology, Psych. 2—Psychology of Everyday Problems; Soc. Sci. 9, 10—Citizenship in the Modern World (see “General Studies”); and Soc. 1, 2—General Sociology.

Students with less than two years in any combination of courses in social science taken in high school are required to take one year of social science.

In addition to the above listed courses, a large number of courses have been selected which a freshman student may carry on an elective basis, but which do not meet the specific requirements outlined above.

The student normally plans his schedule so as to complete the University College requirements in the freshman year. A student who has chosen the degree he wishes ultimately to receive is advised to select courses from among those offered in the four groups above that are

especially recommended for the particular curriculum he expects to follow. For example, it is suggested that a student who expects to pursue a program in the Arts and Sciences and who will have a requirement in language carry a language course to meet the humanities requirement, while a student who plans to major in the Fine Arts should select F.A. 17-18—Introduction to the Fine Arts to meet the humanities requirement. The student who has not decided upon any definite course will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in any one of the four groups.

COUNSELING PROGRAM. This program is designed to help the student make wise decisions regarding his academic plans. In addition, it encourages him to develop initiative and increasing responsibility for his personal development. Each student is assigned to a faculty counselor selected on the basis of having professional interests similar to those of the student. Throughout the year the student confers with his counselor: at the beginning of each semester for schedule preparation, at the time of the two grade periods each semester (end of seventh and thirteenth weeks), and at other times as he may need advice or assistance.

ADVANCEMENT TO DEGREE COLLEGE. At the end of two semesters, the student is advanced to the degree college of his choice. Graduation from the University requires the completion of all University College requirements. The student is advised to include courses for completing any unfulfilled University College requirements in his sophomore schedule of classes.

REGISTRATION. All entering freshmen must register and participate in the orientation program. A copy of the complete schedule of events is mailed to each new student before registration. Announcements for registration in the second semester and the summer session are made to students registered in the University directly by mail and through the student newspaper, the *Ohio University Post*.

TERMINAL PROGRAM LEADING TO ASSOCIATE IN ARTS DIPLOMA. The University College offers a program of study for the student who does not intend to complete a four-year degree program and who plans to spend only two years in the University. Its completion leads to the Associate in Arts diploma.

The Associate in Arts program includes English composition, physical education, speech, Social Science 9 and 10, and other general education and career courses. The same standards of academic achievement as for the degree are required during the progress of the program. The student must complete 62 hours with a minimum of 124 grade points. Application for the diploma is made at the office of the Registrar at the time announced for all degree and diploma candidates and must be accompanied by a fee of \$5.

A number of curricula for terminal programs have been outlined. They furnish the student with a background for admission to certain professional schools or for employment in a special position. The outlined curricula include: Agriculture; Commerce, including General Business or Secretarial Studies; Home Economics; Journalism, with work in either Advertising or Radio Speech; Medical Technology; Meteorology; Premortuary Science; Prepharmacy; Preveterinary Medicine; and Recreation Leadership. There are additional curricula, and other special programs may be planned to meet the needs of the student.

When the student decides to pursue one of these programs, he confers with his counselor and prepares an outline of courses which he will carry to complete the program. This is filed with the University College office. Credit earned while enrolled in a terminal program may be counted on a four-year degree course, subject to the approval of the dean of the degree college in which he later enrolls. A student who shifts to a degree program is required to complete all University College requirements. This shift from a terminal program to a degree program may involve spending additional time in completing the degree requirements, since some of these requirements are normally completed in the first two years and may not have been a part of the Associate in Arts program.

STUDENT HOUR LOAD FOR FRESHMEN IN THE UNIVERSITY COLLEGE.

It is important that a university student should establish good study habits and that he should normally complete one fourth of the work required for a degree (from 31 to 36 semester hours credit) during his freshman year.

So that a student may accomplish these things and carry a load adjusted to his demonstrated ability in high school, a full-time student not admitted on warning and not on probation is required to carry a minimum load of 15 semester hours credit. The maximum load will usually not exceed 17 semester hours (18 or 19 semester hours for an engineering student).

A full-time student admitted on "special warning" (see page 54) or who is on probation is required to carry a minimum load of 12 semester hours credit. The maximum load for such a student is 14 semester hours credit.

Any exceptions to the above regulations—either to carry a load in excess of the maximum or less than the minimum—must be approved by the dean of the University College.

THE COLLEGE OF APPLIED SCIENCE

E. J. TAYLOR, JR.,
DEAN

ENGINEERING

Architectural
Chemical
Civil
Electrical
Engineering Drawing
Mechanical
(Industrial and Technical Options)

THE SCHOOL OF HOME ECONOMICS

VIVIAN M. ROBERTS, DIRECTOR

Child Development and Family Life
Foods and Nutrition
Home Economics Education
Housing and Home Management
Institution Administration
Textiles and Clothing

THE DEPARTMENT OF INDUSTRIAL ARTS

Industrial Arts
Industrial Technology
Printing Administration

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curricula leading to the Bachelor of Science degree in the fields of engineering, industrial technology, and home economics.

Candidates for degrees must fulfill the general graduation requirements of the University (see page 68). Candidates for the degree in industrial technology must complete a minimum of 130 hours and for the degree in home economics a minimum of 124 hours, plus any physical education requirements in excess of 2 hours with a point-hour ratio of 2.0 (see page 68) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record and to his major or equivalent. Candidates for degrees in engineering must complete a minimum of 140 semester hours plus satisfaction of physical education requirements with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. Not more than 8 semester hours credit in ROTC may be included in the 140 semester hours required for graduation. At least 18 semester hours of credit in humanities and social sciences is required for a degree in engineering, with at least 6 hours credit in each field.

For a student with transferred credits, these rules apply to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach industrial arts or home economics may enroll for the degree Bachelor of Science in Education offered by the College of Education. Students who enroll in the College of Applied Science may complete the requirements for the degree Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the requirements in education specified by the State Department of Education for the field in which the student desires to teach. Requirements of the State Department of Education are listed under "Teaching Certificates" on page 141.

ENGINEERING

Engineering curricula accredited by the Engineer's Council for Professional Development are offered in Architectural Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical Options). A curriculum in Chemical Engineering has recently been organized.

All engineering faculty members are registered professional engineers in the State of Ohio. New faculty members are expected to register in the State of Ohio within a year after they have been appointed to the faculty.

A four-year engineering program necessarily limits the time which may be devoted to study in other colleges of the University. Since a background in English, the humanities, and the social sciences is

essential for an engineer who hopes to advance in his profession, the faculty requires that all candidates for an engineering degree must have completed at least 18 semester hours of credit in the humanities-social sciences (including English courses numbered above 100). At least 6 hours credit in each field is required. The student is urged to plan in consultation with his advisor a program in these fields which will be most helpful to him. Engineers are frequently chosen for management; hence it is to the student's advantage to secure the broadest possible education.

ADMISSION TO AN ENGINEERING PROGRAM

High school students who wish to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, including the additional mathematics courses listed under "Subjects in High School" on page 52. Students should indicate their choice of an engineering curriculum on their official application for admission to the University. This precaution will assure proper guidance in the University College program of study.

To be admitted to an engineering program from the University College a student must at the time of admission to the engineering program have (1) satisfactorily completed Math. 6—Analytic Geometry and Calculus I, (2) satisfied all University College requirements, and (3) have a cumulative point-hour ratio of at least 1.8.

Students who are not properly prepared in high school mathematics must enroll in preparatory mathematics courses. No mathematics course below Math. 5 will be counted toward satisfying the requirements for a degree in engineering.

A student whose point-hour ratio is less than 2.0 for the second semester of the freshman year, or who receives a grade lower than "C" in the mathematics course taken during the second semester of the freshman year, is admitted to an engineering program *on warning*. Such a student remains on warning until the end of the first semester in which he achieves a cumulative point-hour ratio of 2.0.

Students who wish to lighten the strenuous load of a four-year program may plan their program to take nine semesters or to attend a summer session. Students who have high school deficiencies to make up are urged to consider this alternative. With proper planning a student may obtain a degree from the College of Arts and Sciences, the College of Commerce, or the College of Fine Arts as well as a Bachelor of Science degree in an engineering field upon the completion of 10 semesters in the University. (See "A Second Bachelor's Degree" on page 73.)

University College students who intend to study engineering are urged to consider a foreign language for the humanities requirement. Those intending to enroll in Chemical Engineering should choose German. Opportunities for engineers who are acquainted with a foreign language are increasing.

Every engineering student should be prepared after completion of his four-year program to pass the examination given by the Board of Registration for Professional Engineers of the state in which he intends to practice. The Ohio Board allows those who have completed the standard four-year curriculum to appear for examination. It is to the student's advantage to take the examination as soon as possible after graduation.

REQUIREMENTS FOR CONTINUING IN AN ENGINEERING PROGRAM

A student who has been admitted to an engineering program with a point-hour ratio of less than a 2.0 must remove the grade-point deficiency by the end of the second semester in the engineering program. A grade-point deficiency in engineering subjects will not be permitted after two semesters in an engineering program. Failure to meet these requirements will result in a student being dropped from the engineering program by special action.

CURRICULA IN ENGINEERING

The faculty has established basic curricula in Architectural Engineering, Civil Engineering, Chemical Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical Options).

University requirements pertaining to English Composition, physical education, the humanities, social sciences, and speech (see page 76) are not indicated in the engineering curricula which follow.

HUMANITIES—SOCIAL SCIENCE ELECTIVES. The following subjects will meet the humanities and social science requirements.

Humanities Elective Group
English courses numbered over 100
Courses in Fine Arts
Humanities 7, 8—Great Books
A foreign language
Courses in Philosophy
Human Relations 303, 304—Human Relations

Social Science Elective Group
Courses in Economics
Courses in Geography
Courses in Government
Courses in History
General Studies 9, 10—Citizenship in the Modern World
Courses in Psychology
Courses in Sociology

If a student desires to take other courses to satisfy the restricted elective requirement, he must receive prior approval of his department chairman and the dean.

ELECTIVES. Any courses listed other than those used to remove high school deficiencies may be selected as free electives. ROTC courses not to exceed eight hours credit may be used for free electives. The following are recommended.

Accounting 75-76—Elementary Accounting
Accounting 175—Cost Accounting
Business Law 255-256—Business Law
C. E. 270—Engineering Economy
Math. 207—Applied Statistics
Math. 304—Advanced Calculus
Math. 315—Advanced Applied Mathematics I
Management 302—Production Management

Management 312—Administration of Personnel
Physics 115—Modern Physics
Physics 349-350—Atomic and Nuclear Physics
Physics 365—Nuclear Reactor Theory and Practice
Statistics 155—Business Statistics
Speech 3—Public Speaking

Freshman Program
(For all engineers)

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry*—4 or 3	
E. D. 1—Engineering Drawing	2	E. D. 2—Engineering Drawing**	2
Math. 5—Freshman Mathematics	5	E. D. 21—Descriptive Geometry	2
*Chemical Engineers take Chem. 99		Math. 6—Analytic Geometry and	
		Calculus I	5
		**Architectural Engineers take Art 1 ..	3

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the student a broad fundamental background in architecture and engineering. The elective hours of study may be used to increase either the engineering or architectural content of the curriculum, or to broaden it by study in other divisions of the University.

Freshman Program
(See top of page)

Sophomore Program

Hours	Hours
Math. 101—Analytic Geometry and	
Calculus II	4
Phys. 113—General Physics	4
C. E. 120—Applied Mechanics	3
Arch. 55—Fundamentals of Architecture 3	
Humanities or Social Science Elective—	3
E. D. 3—Slide Rule	1
Math. 102—Analytic Geometry and	
Calculus III	4
Phys. 114—General Physics	4
C. E. 10—Plane Surveying	3
Arch. 56—Architectural Graphics	3
C. E. 121—Applied Mechanics	3

Junior Program

C. E. 222—Strength of Materials	3	C. E. 228—Reinforced Concrete Theory—	2
C. E. 223—Materials Test Lab	1	C. E. 330—Structural Analysis II	4
C. E. 230—Structural Analysis I	4	Arch. 156—Architectural Design	5
Arch. 155—Architectural Design	5	Arch. 183—Architectural Equipment ..	3
Arch. 179—Architectural Materials	3	English Literature Elective	3
Math. 315—Advanced Applied		Elective	2
Mathematics I	3		

Senior Program

E. E. 201—Circuits and Measurements ..	4	E. E. 328—Illuminating Engineering ..	3
C. E. 231—Structural Design I	4	C. E. 331—Structural Design II	3
Bus. L. 255—Business Law	3	C. E. 270—Engineering Economy	3
C. E. 225—Soil Mechanics	3	F. A. 176—History of Architecture ..	3
Arch. 254—Working Drawings	2	Basic Science Elective or Engr.	
F. A. 175—History of Architecture	3	Sci. Elec.	3
		Humanities or Social Science Elective ..	3

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

The rapid rise of the chemical industry in the Ohio Valley has prompted the faculty to establish a curriculum in chemical engineering. Classrooms and space for laboratory instruction in unit operations and unit processes as well as facilities for chemical engineering research are included in the Engineering Building.

This curriculum is designed to provide a broad but thorough training in chemical engineering. The graduate from the program will have an adequate background for graduate study in engineering or the

sciences, or for further self-training in the areas of engineering development, research, management, or technical sales in the chemical or related industries.

In the first two years, chemistry, mathematics, physics, and the sciences basic to all engineering, are emphasized. Simultaneously an integrated sequence of courses in engineering science and analysis is developed which leads to intensive study of the fundamentals of chemical engineering in the latter years. In addition to technical training, the professional engineer needs to have some knowledge of fields other than his own. Approximately a fifth of the curriculum is elective, which permits the student to pursue his interests, under guidance, in the humanities and social studies.

Freshman Program

(See page 85)

Sophomore Program

First Semester	Hours	Second Semester	Hours
C. E. 120—Applied Mechanics	3	C. E. 121—Applied Mechanics	3
Chem. 107—Quantitative Analysis	4	Ch. E. 101—Introduction to Chemical Process Prin.	3
Math. 101—Analytic Geometry and Calculus II	4	Math. 102—Analytic Geometry and Calculus III	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
E. D. 3—Slide Rule	1	English Literature Elective	3
Elective	2	Elective	2

Junior Program

C. E. 222—Strength of Materials	3	M. E. 221—Thermodynamics I	3
C. E. 223—Materials Testing Lab.	1	Chem. 202—Organic Chemistry	3
Chem. 201—Organic Chemistry	3	Chem. 314—Physical Chemistry	3
Chem. 313—Physical Chemistry	3	Chem. 315—Physical Chemistry Lab.	2
Chem. 203—Organic Chemistry Lab.	2	Ch. E. 310—Unit Operations	3
Elective from Group A	3	Social Science or Humanities Elective	3
History Elective	3		

Senior Program

Ch. E. 311—Unit Operations	3	Ch. E. 340—Design and Instrumentation	5
Ch. E. 312—Unit Operations Lab.	2	Engr. 391—Seminar in Ch. E.	1
Ch. E. 320—Unit Processes	3	E. E. 309—Applied Electronics	3
Ch. E. 211—Materials & Metallurgy or Ch. E. 220—Thermodynamics & Kinetics	3	Elective from Group B	2-3
E. E. 201—Circuits and Measurements	4	Elective from Group C	3
Social Science or Humanities Elective	3	Social Science or Humanities Elective	3
Group A Electives:			
Math. 301—Theory of Equations	3	Phys. 115—Modern Physics	2-3
Math. 304—Advanced Calculus	3	Phys. 365—Nuclear Reactor Theory and Practice	3
Math. 315—Advanced Applied		Phys. 314—Modern Spectroscopy	3
Math 316—Advanced Applied		Phys. 349—Atomic & Nuclear Physics	3
Mathematics I	3	Group C Electives:	
Mathematics II	3	Ch. E. Advanced Topics	3
		M. E. 314—Heat Transfer	3
		Senior Level Chemistry	3

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary for a broad understanding of the profession. The following fields are studied: structures and foundations, hydraulics, highway and railroad layout and construction, water supply, sanitation, and surveying. Courses which consider the economic and legal aspects of engineering are required. Although the program is comprehensive,

it allows the student elective hours of study during the last two years. By a proper choice of these electives he may extend his study of one or more of the several fields discussed above or he may pursue further the business aspects of engineering, or he may broaden himself in a more general way by a judicious selection of courses in various divisions of the University.

Freshman Program

(See page 85)

Sophomore Program

First Semester	Hours	Second Semester	Hours
E. D. 3—Slide Rule	1	C. E. 121—Applied Mechanics	3
C. E. 120—Applied Mechanics	3	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Math. 102—Analytic Geometry and	
Geol. 103—Engineering Geology	3	Calculus III	4
Math. 101—Analytic Geometry and		C. E. 224—Fluid Mechanics	3
Calculus II	4	C. E. 240—Hydraulics Lab.	1
C. E. 10—Plane Surveying or		C. E. 10—Plane Surveying or	
Humanities or Social Science Elective --	3	Humanities or Social Science Elective --	3

Junior Program

C. E. 213—Advanced Surveying	3	C. E. 228—Reinforced Concrete Theory -	2
C. E. 260—Route Engineering	2	C. E. 330—Structural Analysis II	4
C. E. 222—Strength of Materials	3	C. E. 249—Water Supply Engineering -	3
C. E. 223—Materials Testing Labora-		Math. 315—Advanced Applied Mathe-	
tory	1	matics I	3
C. E. 230—Structural Analysis I	4	C. E. 270—Engineering Economy	3
C. E. 241—Hydrology	2	Humanities or Social Science Elective --	3
Humanities or Social Science Elective --	3		

Senior Program

C. E. 225—Soil Mechanics	3	C. E. 331—Structural Design II	3
C. E. 231—Structural Design I	4	C. E. 250—Sanitary Engineering	3
E. E. 201—Circuits and Measurements -	4	C. E. 261—Highway Engineering	3
Bus. L. 255—Business Law	3	E. E. 309—Applied Electronics	3
English Literature Elective	3	Basic Science Elective or Engr. Sci. --	2-3
Humanities or Social Science Elective --	3	Humanities or Social Science Elective --	3

Basic Science or Engineering Science Elective Group:

Phys. 115—Modern Physics	Math. 316—Advanced Applied
M. E. 221—Thermodynamics I	Mathematics II
C. E. 326—Advanced Strength of	Phys. 349, 350—Atomic and Nuclear
Materials	Physics
Chem. 113—Organic Chemistry	Chem. 99—Qualitative Analysis
	M. E. 394—Mechanical Vibration

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enables a student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering. A choice of electives offers a limited amount of specialization in either power engineering or communication engineering.

Freshman Program

(See page 85)

Sophomore Program

First Semester	Hours	Second Semester	Hours
E. E. 103—Basic Electrical Engineering -----	5	E. E. 104—Basic Electrical Engineering -----	5
Physics 113—General Physics -----	4	Physics 114—General Physics -----	4
Ind. A. 13—General Cold Metals -----	3	C. E. 120—Applied Mechanics -----	3
Math. 101—Analytic Geometry and Calculus II -----	4	Math. 102—Analytic Geometry and Calculus III -----	4
Humanities or Social Science Electives -	3	Humanities or Social Science Electives -	3

Junior Program

E. E. 303—Electrical Machines -----	5	E. E. 304—Electrical Machines -----	5
C. E. 121—Applied Mechanics -----	3	C. E. 222—Strength of Materials -----	3
Math. 315—Advanced Applied Mathematics I -----	3	Phys. 115—Modern Physics -----	3
E. E. 307—Engineering Electronics -----	3	E. E. 308—Engineering Electronics -----	3
Humanities or Social Science Electives -	3	Humanities or Social Science Electives -	3
Electives -----	2	Electives -----	2

Senior Program

E. E. 301—Communication Engineering -----	4	E. E. 302—Communication Engineering -----	4
E. E. 334—Advanced Electrical Circuits -----	3	E. E. 335—Electric and Magnetic Fields -----	3
Technical Electives -----	6	Technical Electives -----	6
Thermodynamics -----	3	Electives -----	2
Humanities or Social Science Electives -	3	Humanities or Social Science Electives -	3

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The technical option in mechanical engineering emphasizes machine design and heat engineering. The work covered in the first two years is general and fundamental and parallels that in the other engineering curricula. The last two years cover comprehensive courses in the theory, development, and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, and refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

The industrial option provides a fundamental engineering background as in the technical option but, instead of focusing the early training on machine design and heat engineering, it emphasizes training in fields leading to careers in industrial management.

TECHNICAL OPTION**Freshman Program**

(See page 85)

Sophomore Program

First Semester	Hours	Second Semester	Hours
Econ. 101—Principles of Economics -----	3	C. E. 120—Applied Mechanics -----	3
Ind. A. 14—General Hot Metals -----	3	Ind. A. 13—General Cold Metals -----	3
Math. 101—Analytic Geometry and Calculus II -----	4	Math. 102—Analytic Geometry and Calculus III -----	4
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
E. D. 3—Slide Rule -----	1	Social Science or Humanities Elective -	3
Elective -----	2	Elective -----	2

Junior Program

C. E. 121—Applied Mechanics -----	3	C. E. 222—Strength of Materials -----	3
E. E. 201—Circuits and Measurements -	4	C. E. 223—Materials Testing Lab -----	1
M. E. 201—Kinematics -----	3	E. E. 202—Electrical Machinery -----	2
M. E. 211—Engineering Metallurgy -----	3	Math. 315—Advanced Applied Mathe-	
M. E. 221—Thermodynamics I -----	3	matics I -----	3
History Elective -----	3	M. E. 113—Metal Processing -----	2
	19	M. E. 222—Thermodynamics II -----	3
		M. E. 302—Dynamics of Machinery -----	3
		Phys. 115—Modern Physics -----	3
			20

Senior Program

C. E. 224—Fluid Mechanics -----	3	Engr. 391—Seminar -----	1
E. E. 309—Applied Electronics -----	3	M. E. 229—Steam Power Laboratory ---	2
M. E. 227—Steam Power Plants -----	3	M. E. 304—Machine Design II -----	3
M. E. 303—Machine Design I -----	3	M. E. 312—Internal Combustion	
M. E. 311—Air Cond. and		Engines -----	4
Refrigeration -----	3	M. E. 314—Heat Transfer -----	3
Social Science or Humanities Elective --	3	English Literature Elective -----	2
	18	Social Science or Humanities Elective -	3
			19

INDUSTRIAL OPTION

Freshman Program

(See page 85)

Sophomore Program

Hours		Hours	
Econ. 101—Principles of Economics ---	3	C. E. 120—Applied Mechanics -----	3
Ind. A. 13—General Cold Metals -----	3	Econ. 102—Principles of Economics ---	3
Math. 101—Analytic Geometry and		Ind. A. 14—General Hot Metals -----	3
Calculus II -----	4	Math. 102—Analytic Geometry and	
Phys. 118—General Physics -----	4	Calculus III -----	4
E. D. 3—Slide Rule -----	1	Phys. 114—General Physics -----	4
Elective -----	2	Elective -----	2
	17		19

Junior Program

Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
C. E. 121—Applied Mechanics -----	3	C. E. 222—Strength of Materials -----	3
E. E. 201—Circuits and Measurements -	4	C. E. 223—Materials Testing Lab -----	1
M. E. 113—Metal Processing -----	2	E. E. 202—Electrical Machinery -----	2
M. E. 211—Engineering Metallurgy -----	3	M. E. 221—Thermodynamics I -----	3
History Elective -----	3	Mgt. 302—Production Management -----	3
	18	Phys. 115—Modern Physics -----	3
			18

Senior Program

C. E. 270—Engineering Economy -----	3	Engr. 391—Seminar -----	1
M. E. 201—Kinematics -----	3	M. E. 303—Machine Design I -----	3
E. E. 309—Applied Electronics -----	3	Mgt. 321—Motion and Time Study -----	3
Social Science or Humanities Elective --	3	Elective from the following:	
Elective from the following:		Ch. E. 320—Unit Processes -----	3
Acct. 175—Cost Accounting -----	3	C. E. 224—Fluid Mechanics -----	3
C. E. 10—Plane Surveying -----	3	M. E. 304—Machine Design II -----	3
Econ. 335—Labor Economics -----	3	M. E. 311—Air Cond. and Refrig. -	3
Math. 207—Applied Statistics -----	3	M. E. 312—Internal Combustion	
Mgt. 308—Production Planning and		Eng. -----	4
Control -----	3	English Literature Elective -----	3
Elective from the following:		Social Science or Humanities Elective --	3
Ch. E. 310—Unit Processes -----	3	Elective -----	3
Math. 315—Advanced Applied			
Mathematics I -----	3		
M. E. 222—Thermodynamics II -----	3		
M. E. 227—Steam Power Plants ---	3		

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics plays a dual role in training young women for home and family living as well as a business or professional career. During the freshman and sophomore years, emphasis is placed upon general education and basic training for home and family living. The student thus has the opportunity of becoming acquainted with all areas of Home Economics and is better able to select the field of specialization she wishes to follow during the junior and senior years.

Ten professional curricula, and one nonprofessional, are available, all of which lead to the degree of Bachelor of Science in Home Economics. The curricula are as follows:

Professional

Foods and Nutrition (Dietetics)	Home Economics in Business
Clothing and Textiles with Design	Journalism
Home Economics Education	Commercial Foods and Equipment
Home Economics Extension	Clothing Merchandising
Child Development with Nursery School	Home Planning and Decoration
	Radio-TV

Nonprofessional

Home and Family Living

Career opportunities for the home economist in the business and the professional world are numerous. Hospitals, restaurants, hotels and college residence halls are seeking the major in *Dietetics*. Public utility companies and manufacturers or retailers of food seek women trained in *Commercial Foods and Equipment* for promotional activities or for writing publications or for experimental work with foods and equipment.

The girl interested in *Textiles* will find opportunities in textile testing or in developing promotional and educational programs for textile concerns. Clothing manufacturers, pattern companies, and clothing departments in retail stores seek the *Clothing* specialist for promotional work, for designing garments, for merchandising and buying, for alterations, for comparison shopping, or for fashion coordination.

Home Economics Teachers, both vocational and nonvocational, are always in demand. The School of Home Economics is approved by the State of Ohio Department of Education for training vocational home economics teachers.

The broad program of *Home Economics Extension* in rural and urban areas of Ohio requires a large staff trained in extension for positions as home demonstration agent, extension specialist, or 4-H Club leader.

The home economist interested in *Child Development* will find opportunities in private or industrial nursery schools, or in welfare agencies caring for young children. By meeting the state requirements for certification, she may teach young children in public schools.

Newspapers, women's magazines, radio and television companies seek the home economist with a flair for writing, speaking or demonstrating, since she is trained to direct her program to the homemaker and consumer.

The *Home Planning and Decoration* specialist finds opportunities in gift and decorating establishments helping the consumer in the selection of furnishings for the home. Or she may become associated with magazine or advertising concerns writing articles or assisting with promotional programs.

SPECIAL FACILITIES. The program in Home Economics at Ohio University is not confined to the classroom and laboratories; other activities and experiences are encouraged. A Nursery School and a Home Management House are maintained by the department. Nearby high school home economics laboratories are available for student teaching. Off-campus activities have been developed with the Ohio State Extension Service, with the Health Department, with business organizations, with department stores, and with radio-TV stations to give the student opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer School in Detroit, Michigan, provides a unique experience for the junior or senior desiring a semester of specialized training in all areas related to marriage and the family.

CORE COURSES. The School of Home Economics offers a group of core courses having no prerequisites, and open to any student in the University. These courses are the basic courses taken by all students in home economics. However, they emphasize the practical aspects of home economics and are planned for women students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

- H. Ec. 1-2—Foods, Nutrition and Meal Planning
- H. Ec. 3-4—Clothing Selection and Construction
- H. Ec. 5—Child Development
- H. Ec. 6—Family Living
- H. Ec. 7—The Home and Its Furnishings
- H. Ec. 108—Consumer Problems of the Family
- H. Ec. 110—Textiles
- H. Ec. 161—Home Nursing and Family Health

MINORS IN HOME ECONOMICS. Programs may be set up with some one phase of home economics as a minor field. For instance, students in any department in the University may elect a minor in Home and Family Living, or Clothing and Textiles, or Foods and Nutrition, or Child Development and Family Life, or School Lunch and Institution Management.

I FRESHMAN AND SOPHOMORE PROGRAM

The requirements of the University College relative to high school deficiencies, English composition, physical education, and speech must be fulfilled. In addition the freshman and sophomore program should include the following basic courses:

	Hours		Hours
H. Ec. 51—Orientation in Home Economics -----	2	H. Ec. 1-2—Foods, Nutrition and Meal Planning -----	6
Science—(See Note 1) -----	6-8	H. Ec. 3-4—Clothing Selection and Construction -----	4
Soc. 1—General Sociology -----	3	H. Ec. 5—Child Development -----	3
Psych. 1—General Psychology -----	3	H. Ec. 6—Family Living -----	3
Ec. 11 or 101—Principles of Economics -----	3	H. Ec. 7—The Home and its Furnishings -----	2
Art 1, 2—Drawing and Design (6) or Composition (3) -----	3-6	H. Ec. 108—Consumer Problems of the Family -----	2
		H. Ec. 110—Textiles -----	2

Note 1: Chemistry is required of those majoring in Foods and Nutrition, Clothing and Textiles, or Commercial Foods. Students following other curricula in home economics may take either Biol. 1-2—Living World, Zool. 3-4—Principles of Zoology, or chemistry. Chemistry is strongly recommended for those students who do not know which curriculum they wish to follow.

II JUNIOR AND SENIOR PROGRAM

If the student wishes to prepare for a career in some phase of home economics, she follows one of the ten professional curricula during her junior and senior years. If she is not interested in a professional or business career, she may follow the nonprofessional curriculum with emphasis on home and family living.

PROFESSIONAL CURRICULA

Foods and Nutrition (Dietetics)

	Hours		Hours
H. Ec. 125—Family Nutrition -----	3	H. Ec. 342—Institution Marketing and Food Cost Control -----	2
H. Ec. 322—Experimental Cookery -----	3	H. Ec. 343—Institution Equipment and Furnishings -----	2
H. Ec. 326—Advanced Nutrition -----	3	H. Ec. 348—Institution Management -----	3
H. Ec. 327—Quantity Cookery -----	3	H. Ec. 269—Teaching of Foods and Nutrition -----	3
H. Ec. 329—Nutrition in Disease -----	2	Zool. 235—Elements of Physiology -----	4
H. Ec. 351—Home Management -----	2	Zool. 241—Elementary Bacteriology -----	4
H. Ec. 353—Home Management Laboratory -----	3	Zool. 309—Biological Chemistry -----	4
Aect. 75—Elementary Accounting -----	3		
Chem. 113—Organic Chemistry -----	4		

Clothing and Textiles with Merchandising

H. Ec. 212-213—Flat Pattern Design -----	4	Ec. 12 or 102—Principles of Economics -----	3
H. Ec. 313—Clothing and Textiles for the Consumer -----	2	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 315—History of Costume and Textiles -----	2	Mkt. 155—Marketing Principles -----	3
H. Ec. 316—Tailoring -----	3	Six hours selected from the following:	
H. Ec. 318—Advanced Textiles -----	3	Aect. 75—Elementary Accounting -----	3
H. Ec. 319 a and b—Special studies in Textiles and Clothing -----	6	Mgt. 211—Industrial Management -----	3
H. Ec. 351—Home Management -----	2	Mkt. 271—Principles of Personal Selling -----	2
H. Ec. 353—Home Management Laboratory -----	3	Psych. 135—Psychology of Advertising and Selling -----	3
Advt. 155—Advertising Principles -----	3	Sec. St. 220—Business Communications -----	3
Art 28—Figure Drawing -----	2	Sec. St. 285—Office Management -----	3
Art 120—Textile Design -----	3		
Art 137—Fashion Design -----	2		

Clothing and Textiles with Design

H. Ec. 212-213—Flat Pattern Design -----	4	Art 28—Figure Drawing -----	4-6
H. Ec. 313—Clothing and Textiles for the Consumer -----	2	Art 120—Textile Design -----	3
H. Ec. 315—History of Costume and Textiles -----	2	Art 137—Fashion Design -----	2
H. Ec. 316—Tailoring -----	3	Art 321—Advanced Fashion Design and Illustration -----	2-4
H. Ec. 318—Advanced Textiles -----	3	Six hours selected from the following:	
H. Ec. 319, a and b—Special Studies in Textiles or Clothing -----	6	Art 107—Advanced Design -----	3
H. Ec. 351—Home Management -----	2	Art 113—Lettering -----	3
H. Ec. 353—Home Management Laboratory -----	3	Art 147-148—Advertising Design -----	4
		Art 301—Individual Problems -----	1-3

Home Economics Education

H. Ec. 161—Home Nursing and Family Health -----	2	H. Ec. 353—Home Management Laboratory -----	3
H. Ec. 125—Family Nutrition -----	3	H. Ec. 368—Demonstration Techniques -----	2
H. Ec. 172—Advanced Child Development -----	2	Zool. 241—Elementary Bacteriology -----	4
H. Ec. 268—Teaching of Home Economics -----	3	Humanities—Literature, Philosophy, Fine Arts, or Foreign Language -----	6-8
H. Ec. 316—Tailoring -----	3	Psych. 5—Educational Psychology -----	3
H. Ec. 327—Quantity Cookery -----	3	Ed. 130—Secondary Education -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3	Ed. 229—Curriculum and Teaching Practices -----	4
H. Ec. 334—Household Equipment -----	3	Ed. 281—Observation and Student Teaching in High School -----	7
H. Ec. 351—Home Management -----	2		

Home Economics Extension

H. Ec. 161—Home Nursing and Family Health -----	2	H. Ec. 368—Demonstration Techniques -----	2
H. Ec. 125—Family Nutrition -----	3	Zool. 241—Elementary Bacteriology -----	4
H. Ec. 172—Advanced Child Development -----	2	Psych. 5—Educational Psychology -----	3
H. Ec. 268—Teaching of Home Economics -----	3	Ed. 130—Secondary Education -----	3
H. Ec. 316—Tailoring -----	3	Ed. 229—Curriculum and Teaching Practices -----	4
H. Ec. 323—Food Preservation -----	2	Ed. 281—Observation and Student Teaching in High School -----	7
H. Ec. 330—Workshop in Home Furnishings -----	3	Six hours selected from the following:	
H. Ec. 334—Household Equipment -----	3	H. Ec. 369—Home Economics in Adult Education -----	3
H. Ec. 351—Home Management -----	2	H. Ec. 390a—Field Work in Home Economics Extension -----	4-6
H. Ec. 353—Home Management Laboratory -----	3	Jour. 322—Magazine and Feature Writing -----	3

Child Development With Nursery School Training

H. Ec. 161—Home Nursing and Family Health -----	2	Psych. 5—Educational Psychology -----	3
H. Ec. 125—Family Nutrition or H. Ec. 155—Home Economics for the Elementary School -----	2-3	Ed. 101—Materials and Methods in Kindergarten-Primary Education -----	2
H. Ec. 172—Advanced Child Development -----	2	Ed. 102—Literature for Children -----	3
H. Ec. 351—Home Management -----	2	Mus. 72—Music Fundamentals -----	2
H. Ec. 353—Home Management Laboratory -----	3	Minor directed toward Child Welfare*	
H. Ec. 377—Techniques with Young Children -----	3	Soc. 2—General Sociology -----	3
H. Ec. 379 a and b—Guidance of Nursery School Children -----	6	Soc. 133—Social Work in the American Community -----	3
Zool. 241—Elementary Bacteriology (4) or -----		Soc. 234—Child Welfare -----	3
Biol. 1—The Living World (3) or -----		H. Ec. 375 a and b—Readings in Child Development or Family Living -----	4
Phys. Sci. 3—The Physical World (3) -----	3-4	H. Ec. 378—Administration of Group Care of Young Children -----	3
		H. R. 303—Human Relations -----	3

Home Economics With Journalism†

	Hours		Hours
H. Ec. 161—Home Nursing and Family Health -----	2	Humanities—Literature, Philosophy, or Fine Arts -----	6-8
H. Ec. 125—Family Nutrition -----	3	Jour. 107—Newspaper Reporting -----	3
H. Ec. 172—Advanced Child Development -----	2	Jour. 146—Typography, Mechanics, and Make-up -----	3
H. Ec. 316—Tailoring -----	3	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3	8-9 hours selected from the following:	
H. Ec. 334—Household Equipment -----	3	Jour. 323—Advanced Feature and Magazine Writing -----	2
H. Ec. 351—Home Management -----	2	Jour. 375—Specialized Journalism -----	3
H. Ec. 353—Home Management Laboratory -----	3	Jour. 327—Public Relations Techniques -----	2
		Eng. 290—Creative Writing -----	3
		Eng. 293—Sophomore Composition -----	3

*A minor directed toward Child Welfare is required with this curriculum. An exception is made for students in Child Development who want to meet state certification requirements for Kindergarten as well as training for Nursery School. In that case, the Director of the School of Home Economics will waive the sociology requirements and make substitutions necessary for certification.

†Students may combine Journalism with a special area of Home Economics. In such cases Journalism courses may be substituted for the Business courses as listed under the Clothing and Textiles, or the Commercial Food and Equipment curricula.

Commercial Food and Equipment

H. Ec. 125—Family Nutrition	3	Speech 3—Public Speaking	2
H. Ec. 322—Experimental Cookery	3	Six hours selected from the following:	
H. Ec. 323—Food Preservation	2	Sec. St. 220—Business Communications	3
H. Ec. 327—Quantity Cookery	3	Mkt. 271—Principles of Personal	
H. Ec. 334—Household Equipment	3	Selling	2
H. Ec. 340—Problems in Food and		Econ. 309—Public Utilities	2-3
Nutrition	3	Radio-TV 79—Introduction to	
H. Ec. 351—Home Management	2	Radio-TV	2
H. Ec. 353—Home Management		Jour. 323—Advanced Feature and	
Laboratory	3	Magazine Writing	3
H. Ec. 368—Demonstration Techniques	2	Psych. 135—Psychology of Advertising	
Advt. 155—Advertising Principles	3	and Selling	3
Ec. 12 or 102—Principles of Economics	3	Eng. 290—Creative Writing	3
Chem. 113—Organic Chemistry	4	Eng. 293—Sophomore Composition	3
Mkt. 155—Marketing Principles	3		
Jour. 322—Feature and Magazine			
Writing	3		

Home Planning and Decoration

H. Ec. 330—Workshop in Home		Advt. 155—Advertising Principles	3
Furnishings	3	Mkt. 155—Marketing Principles	3
H. Ec. 331—Economics of Furnishings	2	Six hours selected from the following:	
H. Ec. 334—Household Equipment	3	Acct. 75—Elementary Accounting	3
H. Ec. 351—Home Management	2	Jour. 322—Feature and Magazine	
H. Ec. 353—Home Management		Writing	3
Laboratory	3	Mgt. 211—Industrial Management	3
Arch. 56—Architectural Graphics	3	Mkt. 271—Principles of Personal	
Art 120—Textile Design	3	Selling	2
Art 125—Art in Every Day Life	2	Psych. 135—Psychology of	
Art 271-272—Interior Design	6	Advertising and Selling	3
Art 313—Advanced Interior Design	3	Sec. St. 220—Business Communications	3
Ec. 12 or 102—Principles of Economics	3	Sec. St. 285—Office Management	3

Home Economics with Radio-TV*

	Hours		Hours
H. Ec. 161—Home Nursing and		Humanities—Literature, Philosophy, or	
Family Health	2	Fine Arts	6
H. Ec. 125—Family Nutrition	3	Jour. 107—Newspaper Reporting	3
H. Ec. 172—Advanced Child		Speech 2—Voice and Articulation	2
Development	2	Radio-TV 79—Introduction to Radio-	
H. Ec. 316—Tailoring	3	TV	2
H. Ec. 330—Workshop in Home		Radio-TV 180—Radio Speech	3
Furnishings	3	8-9 hours selected from the following:	
H. Ec. 334—Household Equipment	3	Radio-TV 147—Radio Workshop	2-4
H. Ec. 351—Home Management	2	Radio-TV 247—Advanced Radio	
H. Ec. 353—Home Management		Workshop	2
Laboratory	3	Radio-TV 280—Radio-TV News	
H. Ec. 368—Demonstration		Writing and Editing	2
Techniques	2	Radio-TV 285—Radio-TV News	
		Practice	2-3
		Radio-TV 316—Continuity Writing	2

NONPROFESSIONAL CURRICULUM

Home and Family Living

H. Ec. 172—Advanced Child		H. Ec. 353—Home Management	
Development	2	Laboratory	3
H. Ec. 125—Family Nutrition	3	Social Science Electives	9
H. Ec. 161—Home Nursing and		Fin. 75—Personal Finance	2
Family Health	2	Humanities—Philosophy, Fine Arts or	
H. Ec. 316—Tailoring	3	Foreign Language	6-8
H. Ec. 330—Workshop in Home		Literature Electives	6
Furnishings	3	H.R. 301 Marriage	or
H. Ec. 334—Household Equipment	3	Soc. 260—Marriage and the Family	3
H. Ec. 351—Home Management	2		

*Students may combine Radio-TV with a special area of Home Economics. In such cases Radio-TV courses may be substituted for the Business courses as listed under the Clothing and Textiles, or the Commercial Food and Equipment curricula.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

There is a heavy demand from industry for men trained as technicians. These technicians assist engineers and management in the field of operations. They frequently attain responsible executive positions.

The curriculum in Industrial Technology includes a group of courses selected for their contribution to a knowledge and understanding of the manufacturing phase of industry. Some of these courses give an understanding of the economic and legislative controls within which industry operates, others deal with personal and social problems of the worker and his relation with labor groups and management. The shop courses provide experiences with materials, tools and machines. They contribute some of the basic, technical knowledge necessary for the development of skills pertinent to the manufacturing and production phases of industry.

The block of restricted electives is provided in order to allow the student to pursue and build a degree of specialization within related areas. The choice of courses identifying this specialization will generally be restricted to the areas of industrial arts, engineering, architecture, drafting, management, or the physical sciences. The student in consultation with his adviser is expected to select the program of courses designated as his vocational objective before the close of his sophomore year.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY CURRICULUM

Freshman Program

The University College Program should include:

	Hours		Hours
Eng. 3—Composition	3	Eng. 4—Composition	3
Hist. 1, 101, Govt. 1, 101 or		Hist. 2, 102, Govt. 2, 102 or	
Soc. Sc. 9	3	Soc. Sc. 10	3
Physics or Chemistry	3-4	Physics or Chemistry	3-4
E. D. 1, Engineering Drawing	2	E. D. 2 or 15, Drawing	2-3
Speech 1, Fundamentals	1	Elective	3-5
Elective	3-5		

Sophomore Program

Math. 5, Freshman Math.	5	E. D. 3, Slide Rule	1
Ec. 11 or 101, Principles	3	Ec. 12 or 102, Principles	3
Acct. 75, Elem. Accounting	3	Psych. 1 or 101, General	3
Ind. A. 1, General Woodworking	3	Ind. A. 2, General Woodworking	3
Ind. A. 13, Gen. Cold Metals	3	Ind. A. 14, Gen. Hot Metals	3
		Elective	3-4

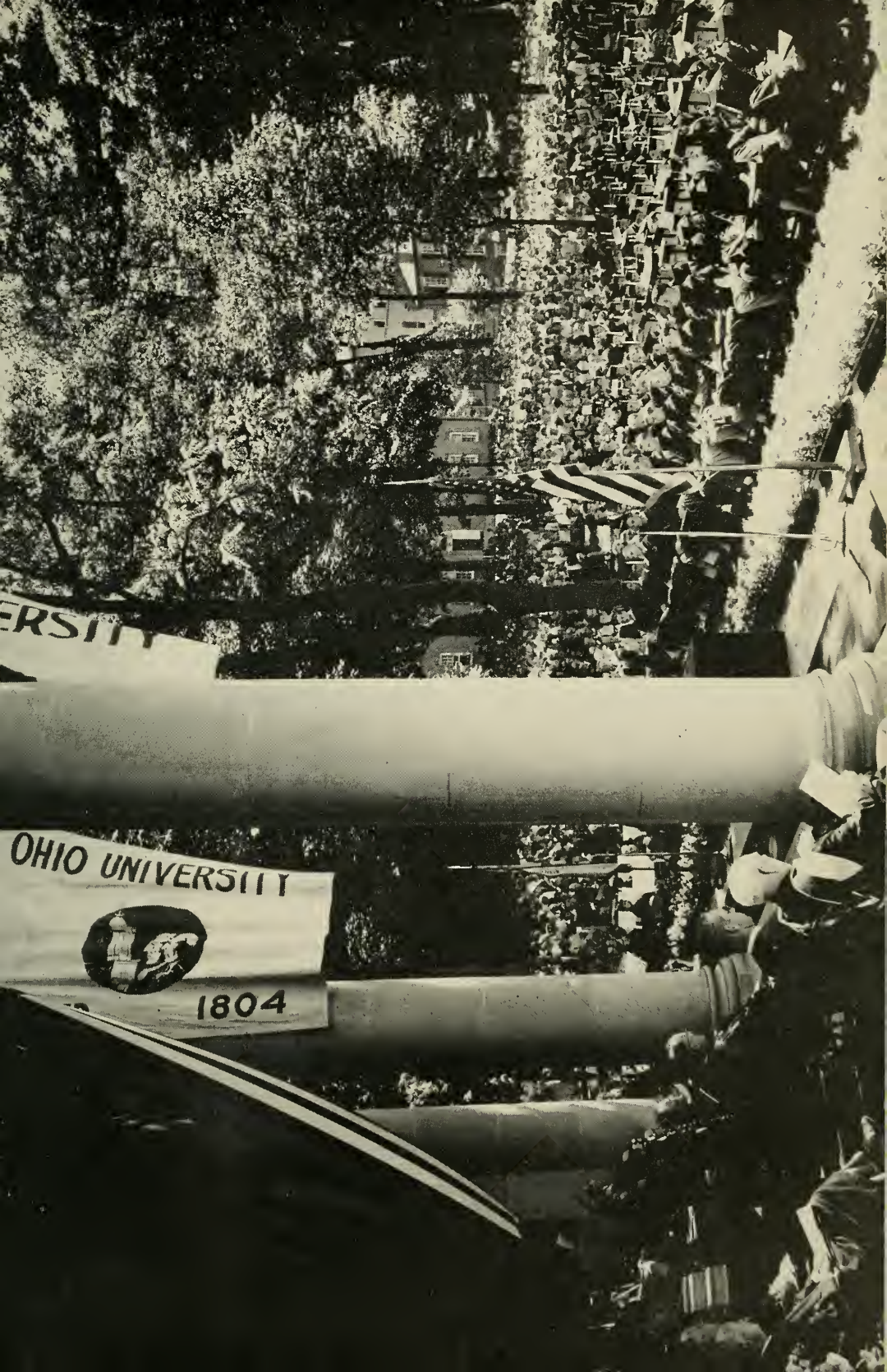
Junior Program

Ind. A. 11, Duplicating	3	Ind. A. 134, Power & Trans.	3
Ind. A. 133, Prac. Electricity	3	Ind. A. 141, Printing	3
Mgt. 211, Industrial	3	Mgt. 321, Motion & Time Study	3
Bus. Law 255, Business Law	3	Sec. St. 220, Business Commun.	3
Restricted Electives*	5	Restricted Electives*	5

Senior Program

Ind. A. 105, Mat. and Finishes	3	Mgt. 302, Production	5
Restricted Electives*	9	Restricted Electives*	6
Electives	4-5	Electives	6-7

*Restricted electives will be chosen by the student and his adviser to satisfy the student's specific objective in the fields of industrial arts, engineering, architecture, drafting, management, physical science, etc.

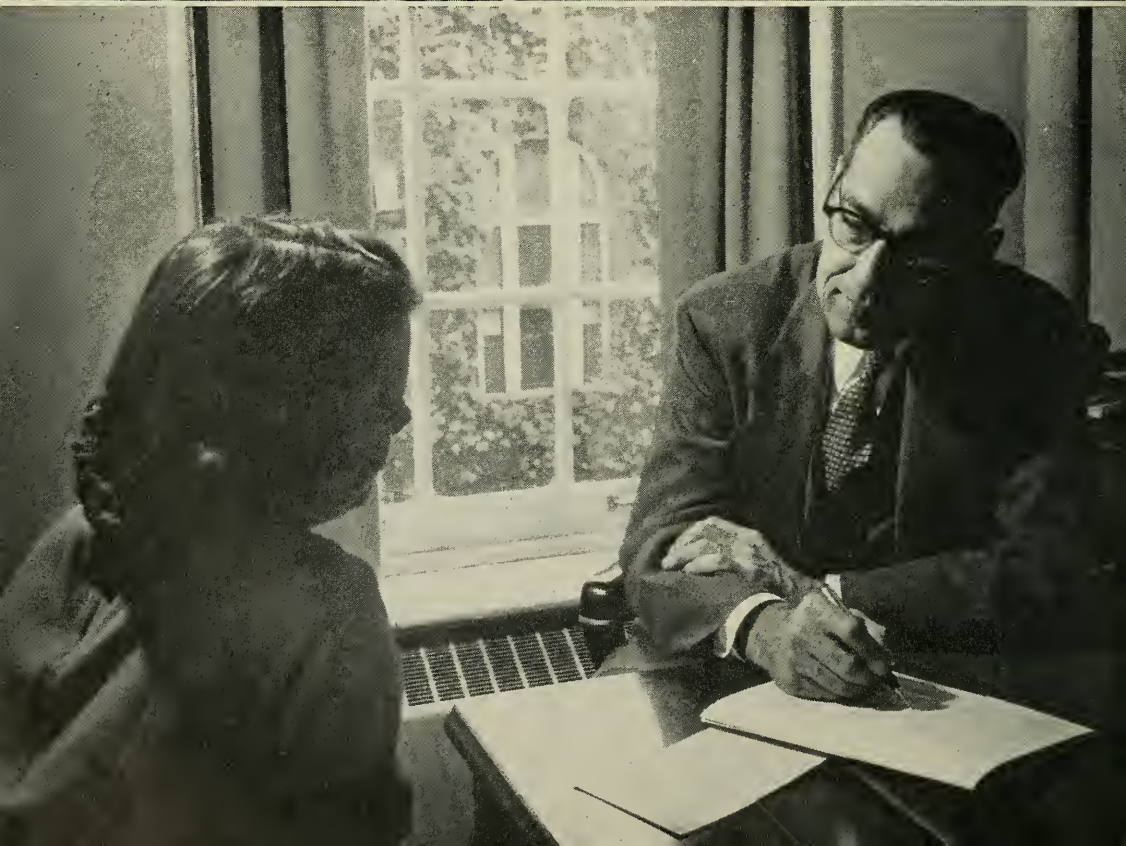


ERSITY

OHIO UNIVERSITY



1804



THE COLLEGE OF ARTS AND SCIENCES

RUSH ELLIOTT

DEAN

Archaeology and Antiquities

Astronomy

Botany

Chemistry

Classical Languages

English

General Studies

Biology

Great Books

Physical Science

Social Science

Geography and Geology

German

Government

History

Human Relations

Mathematics

Philosophy

Physics

Psychology

Romance Languages

Russian

Sociology

Zoology

THE COLLEGE OF ARTS AND SCIENCES

Ohio University remained a liberal arts college for almost one hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last fifty years, the College of Arts and Sciences has held to what has been the central purpose of the college for a century and a half; namely to provide opportunities for the student to secure a general, liberal education. Since its focus is on more general concerns of man, it is broader than an education for immediate application. Liberal education implies knowledge, critical mindedness, the capacity for clear and independent thinking and expression, and ideas important to the thinking of free men and women. A liberal education affords an acquaintance with the language, skills, and methods in some area at a level that is beyond introductory concepts and methods. It prepares the student for more advanced graduate or professional training in some field or for immediate vocation.

These objectives are achieved through courses which make up the curriculum of the college—courses which historically have been regarded as the means whereby man has come to understand himself and the world in which he lives—and through degree requirements so arranged that the student gets specialized knowledge in some particular field or area together with a fundamental education in the humanities, natural sciences, and the social sciences.

The College includes the following departments:

Botany	Human Relations
Chemistry	Mathematics and Astronomy
Classical Languages	Philosophy
English	Physics
Geography and Geology	Psychology
General Studies	Romance Languages
German	Russian
Government	Sociology
History	Zoology

Departments of the College are accredited or recognized by leading professional associations. These include the Council on Social Work Education, the American Chemical Society, the American Psychological Association, and the Board of Registry of the American Society of Clinical Pathologists.

A student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom. Thus, much of the course work required by the other colleges is offered by the faculty of the College of Arts and Sciences. In turn, a student pursuing a degree in this college may elect courses, in some instances completing a major in a department of one of the other colleges.

When a student enters the College of Arts and Sciences from the University College, or by transfer from another college or university, he is assigned an adviser who is a member of the faculty teaching in the area in which the student expects to major. The faculty adviser will assist the student in the preparation of his schedule each semester so that proper sequences of courses in the major, and appropriate related courses, are selected. The student is responsible for being certain that all requirements for the degree are being met.

The College offers two degrees: the Bachelor of Arts and the Bachelor of Science. The requirements for the degrees represent a considerable distribution of studies, yet they require sufficient stress in a major field to insure some degree of mastery of at least one area. All candidates in the College of Arts and Sciences must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to the major also.

The normal load requirement for a student enrolled in the College is a minimum of 15 semester hours and a usual maximum load of 17 semester hours when not on probation, and a minimum of 12 semester hours and a maximum of 14 semester hours when on probation. Any exception to these load requirements must be approved by the dean of the College.

Students who do not complete all University College requirements in the freshman year are expected to have these completed before being advanced to the junior year. Students who have requirements which involve courses numbered below 100 should start meeting such requirements not later than the beginning of the sophomore year. This is particularly recommended in the case of foreign language. Registration for courses numbered below 100 is prohibited for juniors and seniors in many areas and is discouraged in all areas.

BACHELOR OF ARTS

A total of 124 hours is required for the degree of Bachelor of Arts subject to the following:

- (a) At least 60 hours must be in courses numbered above 100.

Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science and physical education, and for courses in departments not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music, four elective credit hours in physical education activities courses, including the two-hour requirement, and six elective hours in industrial arts, are accepted toward the 124-hour degree requirement. Advanced courses for which elective credit is extended are not counted toward the 60-hour requirement in courses numbered above 100. Exception is made for courses in Education above 100 required for teacher certification (see page 112). Further exceptions are made only on review by and approval of the dean of the College.

(b) At least six hours in the major field must be in courses numbered above 300. (See preceding paragraph.)

(c) A minimum of 70 hours must be in courses included in humanities, social sciences, and natural sciences. The hours included in the major in departments of the College of Arts and Sciences are applied toward this total.

(d) Not more than 40 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy two of the following requirements, and the courses selected to meet the requirements in foreign languages, humanities, social sciences and natural sciences must be from departments other than the major.

For example, an English major may not apply courses in English toward the humanities requirement, even though these be courses not required for the major, or in excess of the hours required for the major. Likewise, a zoology major must meet the natural science requirement in departments other than zoology.

The specific requirements for the degree are:	Hours
ENGLISH COMPOSITION: Courses numbered 3-4	6
PHYSICAL EDUCATION: Activities courses as required	0-2
SPEECH: Fundamentals of Speech	1
FOREIGN LANGUAGE: Complete in sequence through course 102 in a language, or equivalent	0-16

Achievement of proficiency in a foreign language equivalent to that attained upon completion of two college years of one language is required. Exception is made for the student with 2 years of high school Latin who may complete the requirement by taking one year of Greek. A student who has had equivalent preparation to the above requirement may satisfy this requirement by passing an examination given by the language department concerned.

A student who is a major in one language must meet the foreign language degree requirement in another language.

HUMANITIES: Select courses from two or more of the following with at least six hours in one	12
--	----

- (a) Archaeology
- (b) English courses numbered 100
- (c) Foreign language courses other than those necessary to complete the foreign language requirement
- (d) Philosophy
- (e) Humanities 7, 8 or 107, 108—Great Books
- (f) Fine arts

Of the fine arts only courses in the history and appreciation of fine arts may be taken to satisfy the 12-hour group requirement. (Courses listed on page 222.) Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 have been previously completed.

SOCIAL SCIENCES: Select courses from two or more departments with at least six hours in some one department....	12
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- (a) Economics
- (b) History
- (c) Human Relations
- (d) Geography (except 175, 176)
- (e) Government
- (f) Psychology (except 209, 301, or 307)
- (g) Sociology
- (h) Social Science 9, 10 or 209, 210

NATURAL SCIENCES: A one-year course in one department and at least a one-semester course in another ----- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following science departments or courses:

Biological Sciences:

- (a) Biology 1-2
- (b) Botany
- (c) Psychology 209, 301, or 307
except for psychology majors
- (d) Zoology

Physical Sciences:

- (a) Astronomy
- (b) Chemistry
- (c) Geography 175 or 176 ex-
cept for geography majors
- (d) Geology
- (e) Physics
- (f) Physical Science 3, 4
- (g) Mathematics (except 1, 2)

Students who have completed Biology 1-2 cannot receive credit for Botany 3-4 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 cannot receive credit for Biology 1-2.

MAJOR: See departmental requirements for particular courses in the major and related fields recommended or required.

- (a) A minimum of twenty-four hours, including six hours in courses numbered above 300, selected from a single department (see specific department requirements), in consultation with an adviser from that department, or
- (b) Dual Major—Twelve hours in courses numbered above 100, including six hours in courses numbered above 300, in each of two closely related departments, chosen with the approval of an adviser from each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirements in language, humanities, natural science and social science.

A transfer student is required to complete eight hours toward the major in courses at the 100 level or above at Ohio University, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete six hours at the 100 level or above in each of two departments at Ohio University, the courses to be approved by the chairmen of the two departments.

A student may complete a major for the A.B. degree in any of the following departments by meeting the specific requirements outlined above and the number of hours and courses specified by the department concerned: botany, chemistry, classical languages, dramatic art and speech, economics, English, geography, geology, German, government, history, home economics, Journalism, mathematics, music, painting and allied arts, philosophy, physics, psychology, romance languages, sociology, speech therapy and zoology.

The specific requirements in the departments in the College of Arts and Sciences are indicated in the descriptive material covering the department. Requirements in departments outside the College are determined by an adviser in the department.

A minor is not required. However, the student may wish to complete one or more minors. A minor consists of at least twelve hours in a single department, including six hours in courses numbered above 100. Courses used to satisfy any of the above degree requirements may not be counted toward the minor.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

BACHELOR OF SCIENCE

A total of 124 hours is required for the degree of Bachelor of Science subject to the following:

(a) At least 60 hours must be in courses numbered above 100.

Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science and physical education, and for courses in departments not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music, four elective credit hours in physical education activities courses, including the two-hour requirement, and six elective hours in industrial arts, are accepted toward the 124-hour degree requirement. Advanced courses for which elective credit is extended are not counted toward the 60-hour requirement in courses numbered above 100. Exception is made for courses in Education above 100 required for teacher certification (see page 112). Further exceptions are made only on review by and approval of the dean of the College.

(b) At least six hours in the major field must be in courses numbered above 300 (see the preceding paragraph).

(c) A minimum total of 70 hours must be in courses included in humanities, social sciences, and natural sciences. The hours included in the major in departments of the College of Arts and Sciences are applied toward this total.

(d) Not more than 45 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy two of the following requirements.

The specific requirements for the degree are:	Hours
ENGLISH COMPOSITION: Courses numbered 3-4	6
PHYSICAL EDUCATION: Activities courses as required	0-2
SPEECH: Fundamentals of	1
FOREIGN LANGUAGE: Two college years, or equivalent	0-16

Two years of one high school language are considered equivalent to one year in college. The requirement may be satisfied by taking more than one language. Students who enter with two years of language, but with less than four years have a one-year requirement in language. Students who enter with only one year of language have a two-year language requirement. Credit is not extended toward meeting the language requirement for the first semester of a beginning language unless the second semester is completed.

HUMANITIES: Select courses from two or more of the following
with at least six hours in one 12

- | | |
|--|---|
| (a) Archaeology | (d) Philosophy |
| (b) English courses numbered above 100 | (e) Humanities 7, 8 or 107, 108—Great Books |
| (c) Foreign language courses other than those necessary to complete the foreign language requirement | (f) Fine Arts |

Of the fine arts, only courses in the history and appreciation of fine arts may be taken to satisfy the 12-hour group requirement. (Courses listed on page 222.) Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 have been previously completed.

SOCIAL SCIENCES: Select courses from two or more departments
with at least six hours in some one department 12

- | | |
|---------------------------------|--|
| (a) Economics | (e) Government |
| (b) History | (f) Psychology (except 209, 301, or 307) |
| (c) Human Relations | (g) Sociology |
| (d) Geography (except 175, 176) | (h) Social Science 9, 10 or 209, 210 |

NATURAL SCIENCES: A one-year course in one department and at
least a one-semester course in another ---- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following departments or courses:

Biological Sciences:

- (a) Biology 1-2
- (b) Botany
- (c) Psychology 209, 301, or 307
except for psychology majors
- (d) Zoology

Physical Sciences:

- (a) Astronomy
- (b) Chemistry
- (c) Geography 175, 176
- (d) Geology
- (e) Physics
- (f) Physical Science 3, 4
- (g) Mathematics except 1, 2

Courses meeting this requirement must be selected from departments other than the one in which the student is a major. Students who have completed Biology 1-2 cannot receive credit for Botany 1-2 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 cannot receive credit for Biology 1-2.

MAJOR: See departmental requirements for particular courses in the major and related fields recommended or required.

- (a) A minimum of twenty-four hours, including six hours in courses numbered above 300, selected from one of the following departments: Botany, Chemistry, Geology, Home Economics, Mathematics, Physics or Zoology in consultation with an adviser from that department, or
- (b) Dual Major—twelve hours in courses numbered above 100, including six hours in courses numbered above 300, in each of two of the above departments, chosen with the approval of an adviser from each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirement in natural science.

A transfer student is required to complete eight hours toward the major in courses at the 100 level or above at Ohio University, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete six hours at the 100 level or above in each of the two departments at Ohio University, the courses to be approved by the chairmen of the two departments.

A minor is not required. However, the student may wish to complete one or more minors. A minor consists of at least twelve hours in a single department, including six hours in courses numbered above 100. Courses used to satisfy any of the above degree requirements may not be counted toward the minor.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

SPECIAL CURRICULA

ATOMIC ENERGY AND INDUSTRIAL PHYSICS

Students preparing for a career in the atomic energy industry or in an industrial physics laboratory should elect the Bachelor of Science degree with a major in physics. The basic curriculum shown below is recommended. Some specialization in a particular phase of physics can be obtained in the junior and senior years by the choice of electives. General university requirements in physical education and speech and the foreign language requirements for the Bachelor of Science degree are omitted from the curriculum below. For these requirements see pages 68, 76, and 102.

Freshman Program

First Semester	Hours	Second Semester	Hours
Chem. 3—General	4	Chem. 4 and 99—General and	
Eng. 3—Composition	3	Qual. Analysis	5
Math. 5—Freshman	5	Eng. 4—Composition	3
Social science or humanities	3	Math. 6—Analytic Geometry and	
Electives*	1-2	Calculus I	5
		Social science or humanities	3
		Electives*	1-2

Sophomore Program

Phys. 113—General	4	Phys. 114—General	4
Math. 101—Analytic Geometry and		Math. 102—Analytic Geometry and	
Calculus II	4	Calculus III	4
Ec. 101—Principles of	3	Ec. 102—Principles of	3
Social science or humanities	3	Social science or humanities	3
Electives**	2-3	Electives**	2-3

Junior Program

Math. 304—Advanced Calculus	3	Math. 315—Advanced Applied	
Phys. 201—Mechanics	3	Mathematics I	3
Phys. 219—Electricity and Magnetism ..	3	Phys. 305—Light	3
Advanced physics laboratory	2	Phys. 220—Electricity and	
Social science or humanities	3	Magnetism	3
Electives**	2	Advanced physics laboratory	2
		Social science and humanities	3
		Electives**	2

Senior Program

Phys. 314—Modern Spectroscopy	3	Phys. 352—Quantum Mechanics	3
Phys. 349—Atomic and Nuclear	3	Phys. 350—Atomic and Nuclear	3
Phys. 310—Heat and Thermodynamics ..	3	Phys. 361—Special Problems in	
Advanced physics laboratory	2	Physics	1
Electives**	5	Phys. 365—Nuclear Reactor Theory	
		and Practice	3
		Electives**	6

PREPARATION FOR DENTISTRY

The minimum requirement for admission to dental school is the completion of at least 60 semester hours of college work which must include general chemistry, organic chemistry, physics, zoology, and English. A broad training in courses other than natural science is urged. Predental students have the same degree-in-absentia privileges as pre-medical students (see page 108).

*See University College requirements.

**See requirements for Bachelor of Science degree.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and		Zool. 3-4—Principles of	6
Qual. Analysis	9	Requirements and/or electives*	
Math. 9—Fundamentals of	3		

Sophomore Program

Chem. 113—Organic	4	Zool. 120—Comparative Vertebrate	
Chem. 117—Organic Chemistry		Anatomy	4
Laboratory	2	Zool. 311—General Bacteriology***	4
Phys. 5, 6—Introduction to	8	Requirements and/or electives**	
Zool. 107—Prin. of Heredity	3		

Junior Program

Phil. 110—Introd. to	3	Zool. 301—Mammalian Anatomy***	4
or		Zool. 305—Principles of Physiology	4
Phil. 209—Logic	3	Requirements and/or electives**	

PREPARATION FOR FORESTRY

The curriculum outlined may be followed, and by meeting the requirements of the College of Arts and Sciences, the Bachelor of Arts or Bachelor of Science degree may be earned.

Freshman Program

The University College Program should include:

	Hours		Hours
Agr. 1 or 2—Intro. to	3	Bot. 3-4—General	6
or		Math. 5—Freshman	5
Agr. 30—Forestry	3	Requirements and/or electives*	

Sophomore Program

Bot. 117—Dendrology	3	Phys. 5—Introduction to	4
Chem. 1-2—General	8	Zool. 3-4—Principles of	6
C. E. 10—Plane Surveying	3	Requirements and/or electives†	
Geol. 106—Agricultural	3		

Junior and Senior Programs

All preforestry students should consult the preforestry adviser concerning course requirements in the junior and senior programs. These requirements will vary with the student's preparation, with the degree program the student elects to follow, and the field of concentration. It is recommended that appropriate selections from the following courses be included:

Agr. 216—Crops and Soils	4	Bot. 318—Wood Technology	3
Bot. 105—Elem. Plant Physiology	3	Bot. 324—Forest Pathology	3
Bot. 203—Plant Ecology	4	Zool. 216—Animal Communities	4
Bot. 211—Plant Anatomy	3	Zool. 219—General Entomology	4

*See requirements for University College (page 76).

**See requirements for Bachelor of Arts or Bachelor of Science degree.

***Suggested.

†See requirements for the Bachelor of Science degree.

PREPARATION FOR GOVERNMENT FOREIGN SERVICE

Students desiring to prepare for the government foreign service examinations, which are given twice yearly, are advised to concentrate their attention on those aspects of history, economics, and government which relate to world problems. Competency in some foreign language such as French, Spanish, German, or Russian is essential, in addition to superior command of English diction.

PREPARATION FOR LAW

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The prelaw student may complete a major in the area of his principal interest. The student is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American history; government; economics; sociology; at least one laboratory science and an additional advanced course is advised; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language, preferably Latin. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Ohio Supreme Court has ruled that a student entering law school after January 1, 1960 must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio are supplementing this Supreme Court ruling by requiring the degree of *all* entering students beginning in the fall of 1960, regardless of the state in which they plan to take the bar examination.

PREPARATION FOR MEDICAL TECHNOLOGY

Preparation in medical technology trains students in laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, *M.T.*, must have had a minimum of 60 semester hours of college work in a college or university recognized by the regional accrediting association, and a year's training in an approved school of medical technology.

The Ohio University — Mount Carmel Hospital Affiliated Training for Medical Technologists fulfills these requirements and affords the student an opportunity to earn the bachelor's degree. After completing six semesters (a minimum of 94 semester hours with a point-hour ratio of 2.0 or above in all hours attempted, including the major, and with

courses which meet degree requirements) at Ohio University, and while still registered in the University, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. Upon satisfactory completion of the University and hospital training requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist. Credit toward the degree for the hospital training program is extended only in case all basic science courses which are required for admission to the Mount Carmel Hospital affiliated training program are completed previous to the hospital residence.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a loan fund for students during their year at Mount Carmel.† Expenses to be met during the year in Columbus are room rent and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it pay any remuneration except that it furnishes board.

The requirements pertaining to English, physical education and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and Qual. Analysis -----	9	Zool. 3-4—Principles of Requirements and/or electives*	6

Sophomore Program

Chem. 107—Quantitative Analysis -----	4	Zool. 107—Principles of Heredity -----	3
Chem. 113—Organic -----	4	Zool. 121—Elements of Anatomy -----	3
Chem. 117—Organic Chemistry Laboratory -----	2	Zool. 304—Histology -----	4
		Zool. 311—General Bacteriology Requirements and/or electives**	4

Junior Program

Phil. 110—Introduction to -----	3	Zool. 245—Clinical Technic -----	2
or -----		Zool. 309—Biological Chemistry -----	4
Phil. 209—Logic -----	3	Zool. 312—Pathogenic Bacteriology -----	4
Zool. 225—Animal Microtechnic -----	1-2	Zool. 316—Animal Parasites -----	4
Zool. 235—Elements of Physiology -----	4	Requirements and/or electives**	

Senior Program

Med. Tech. 291—Urinalysis -----	3	Med. Tech. 295—Histologic Technic -----	4
Med. Tech. 292—Hematology -----	5	Med. Tech. 296—Basal Metabolism and Electrocardiography -----	1
Med. Tech. 293—Bacteriology, etc. -----	11		
Med. Tech. 294—Chemistry -----	8		

PREPARATION FOR MEDICINE

Medical colleges require their prospective students to spend from six to eight semesters in premedical preparation. A number of medical colleges give preference to holders of a bachelor's degree and some require the degree for admission.

*See requirements for University College (page 76)

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

†Application for aid should be filed with Chairman, Department of Zoology.

For most colleges the requirements for admission include general chemistry, organic chemistry, physics, zoology, comparative anatomy, embryology and English. Courses in government, history, economics, sociology, philosophy, and literature are strongly advised. A year's course in mathematics (Math 5-6, or 9-10) is required by some and advised by most schools. A student who plans to complete only three years at Ohio University is advised to meet the degree requirements so as to be eligible for the degree in absentia privilege.

DEGREE IN ABSENTIA. Students who have completed 94 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science may obtain the degree after completing a full year's work in an accredited school of medicine of the quality prescribed for the bachelor's degree at Ohio University, including advancement, without condition, to the second year of medical school, provided before entering the school of medicine, the student secures a statement in writing from the dean giving the senior-in-absentia privilege.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and Qualitative Analysis	9	Math. 10—Fundamentals of	3
Math. 9—Fundamentals of	3	Zool. 3-4—Principles of	6
		Requirements and/or electives*	

Sophomore Program

Chem. 107—Quantitative Analysis	4	Zool. 107—Principles of Heredity	3
Gk 27—Greek Words in English ¹	2	Zool. 120—Comparative Vertebrate Anatomy	4
Phil. 110—Introduction to Philosophy	3	Requirements and/or electives**	
or			
Phil. 209—Logic	3		

Junior Program

Chem. 201-202—Organic	6	Chem. 113—Organic	4
and		and	
Chem. 203-204—Organic Chemistry		Chem. 117—Organic Chemistry Laboratory	2
Laboratory	4	Phys. 5, 6—Introduction to	8
or		Requirements and/or electives**	

Senior Program

Chem. 211—Physical ¹	3	Zool. 305—Principles of Physiology†	4
Zool. 301—Mammalian Anatomy†	4	Zool. 311—General Bacteriology ¹	4
Zool. 302—Vertebrate Embryology†	4	Requirements and/or electives**	

*See requirements for University College (page 76)

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

†Students leaving at the end of the third year should elect this in the third year.

¹Suggested.

PREPARATION FOR NURSING

Education for nursing has come to fall into three categories: (1) the hospital school of nursing which requires no training beyond high school for admission, (2) the college school of nursing which is either a combined four-year program in which a limited amount of liberal education is combined with the training for nursing and leads to the Bachelor of Science in Nursing degree, or (3) a program in which a minimum of two years of college work is required for admission and then upon the completion of nurses training, the Bachelor of Science in Nursing degree is awarded.

In present day society, a broad education, with a reasonable degree of specialization, is generally regarded as being the most valuable for life, so that an Ohio University student interested in nursing is advised to complete requirements for either the Bachelor of Arts or Bachelor of Science degree and then to complete nurses training in an approved program. In many cases the length of time required for the hospital training is shortened as a result of the student having completed the college degree.

The curriculum to be followed in such a program should include courses which provide a scientific background for nursing. The following curriculum will lead to either the A.B. or B.S. degree, and if only part of the program is completed, will prepare a student for admission to a nursing program which requires less preparation than the college degree. No credit is extended by Ohio University for work completed in a nursing program except in a collegiate school of nursing.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and Qualitative Analysis	9	Psych. 5—Educational	3
Psych. 1—General	3	Zool. 3-4—Principles of Requirements and/or electives*	6

Sophomore Program

Chem. 113—Organic	4	H. Ec. 1-2—Foods, Nutrition and Meal Planning	6
Chem. 117—Organic Chemistry Laboratory	2	Soc. 101—Principles of	3
Eng. 101, 102—Soph. Eng. Literature or		Zool. 107—Principles of Heredity	3
Eng. 111, 112—Chief American Writers	3-6	Zool. 121—Elements of Anatomy	3
		Zool. 311—General Bacteriology	4
		Requirements and/or electives**	

Junior Program

Phil. 110—Introduction to	3	Zool. 235—Elements of Physiology	4
or		Zool. 312—Pathogenic Bacteriology ¹	4
Phil. 209—Logic	3	Requirements and/or electives**	
Psych. 310—Mental Hygiene	3		

Senior Program

Requirements and/or electives**

*See requirements for University College (page 76)

**See requirements for Bachelor of Arts or Bachelor of Science degree.

¹Suggested.

PREPARATION FOR OCCUPATIONAL THERAPY

Colleges offering programs in Occupational Therapy require two years of college work in preparation for the two years of professional work leading to the degree. The first two years may be taken at Ohio University, after which transfer can be made to another institution where the work will be completed and the degree conferred.

The first two years of college should include English 3-4 and six hours of literature; Chemistry 1-2 or Physics 5, 6; physical education; psychology, 6 hrs.; sociology, 6 hrs.; Zoology 3, 4 and 107. The remainder of the credit to complete the minimum of 60 hours may be elected from education, foreign language, science, etc. The particular requirements of the school to which the student may wish to transfer should be followed in planning the program at Ohio University.

Further information relative to requirements and the profession of Occupational Therapy may be obtained by writing the American Occupational Therapy Association, 250 West 57th Street, New York 19, N.Y.

PREPARATION FOR OPTOMETRY

The requirements for admission to schools of optometry are not identical. A minimum of two years of college work is required and should include the following courses: English 3-4; Chemistry 1-2; foreign language (the requirement must be determined from the particular school the student wishes to attend); humanities; Mathematics 5-6, 101-102; physical education; Physics 5, 6 or 113, 114; and Zoology 3-4 and 107. Total hours to make a minimum of 64 should include electives from literature, philosophy and psychology, if these have not been selected in the above outlined courses.

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, Department of Public Information, 4030 Chouteau Avenue, St. Louis 10, Missouri.

PREPARATION FOR PHARMACY

Most schools of pharmacy require two years (minimum of 60 semester hours) of prescribed college courses. The following program will meet these entrance requirements.

Freshman Program

	Hours		Hours
Biol. 1-2—Living World	6	Humanities and/or social science	6
or		Math. 9—Fundamentals of	3
Zool. 3-4—Principles of	6	Math. 10—Fundamentals of	3
Chem. 3-4, 99—General and		Physical Education	2
Qualitative Analysis	9	Speech 1	1
Eng. 3-4—English Composition	6		

Sophomore Program

Chem. 107—Quantitative Analysis	4	Econ. 10-11—Principles of	6
Chem. 201-202—Organic	6	Humanities and/or social science	3
Chem. 203-204—Organic Chemistry		Phys. 5, 6 ¹ —Introduction to	8
Laboratory	4		

¹Not required but suggested.

PREPARATION FOR PHYSICAL THERAPY

The following program extending over a period of three years at Ohio University is recommended to those students who wish to enter the field of physical therapy. Upon completion of 94 semester credit hours, if a scholastic average of 2.0 or better on all hours attempted has been maintained, the student is eligible for admission to a school of physical therapy fully accredited by the American Medical Association. An institution affiliating in this program is the Frank E. Bunts Educational Institute of the Cleveland Clinic Foundation, Cleveland, Ohio, which offers a 14-month course in physical therapy. Upon satisfactory completion of the three-year program at Ohio University, including degree requirements, and the course in physical therapy, Ohio University will award the student the bachelor's degree.

Freshman Program

	Hours		Hours
Chem. 1-2—General	8	Psych. 1—General	3
Math. 9—Fundamentals of	3	Zool. 3-4—Principles of	6
Requirements and/or electives (a course in swimming is advised for the physical education requirement.)*			

Sophomore Program

Psych. 103—Child	3	Zool. 107—Principles of Heredity	3
Soc. 101—Principles of	3	Zool. 241—Elementary Bacteriology	4
Zool. 133-134—Anatomy, Kinesiology and Physiology	8	Requirements and/or electives (Psych. 5, Educational Psychology, is advised)**	

Junior Program

Phil. 110—Intro. to	3	Zool. 304—Histology	4
or		Zool. 308—Physiology of	
Phil. 209—Logic	3	Exercise	2
Phys. 5,6 Intro. to	8		

Requirements and/or electives (activity courses in physical education, and Sociology 204, Urban Communities, are advised)**

PREPARATION FOR SOCIAL WORK

The Department of Sociology is a member of the Council on Social Work Education and offers a limited sequence of courses for preprofessional training for social work in conjunction with a major in sociology. These courses also offer students preparing for medicine, law, teaching, and nursing an opportunity to become acquainted with the functions of social agencies which they will encounter frequently in their professional activities or as citizens.

At present there is a national need for professionally trained social workers. Generous financial assistance is available to enable qualified students to obtain a professional education at one of the many accredited graduate schools of social work throughout the nation. Students intending to pursue a career in social work should plan to continue their

*See requirements for University College (page 76)

**See requirements for Bachelor of Arts or Bachelor of Science degree.

preparation beyond the undergraduate level, and should inquire regarding scholarships at the institution of their choice.

(1) *Preparation for Professional Training.* The undergraduate foundation for professional training at graduate schools of social work is a broad liberal arts education, with a concentration of studies in the social, psychological, and biological sciences. Students should elect sociology as their major field, with a minor or second major to be chosen in consultation with the departmental adviser.

(2) *Preparation for Employment.* Students who intend to seek employment in some phase of social work immediately upon completion of the A.B. degree should meet the requirements stated on page 288. Successful completion of these will assist in qualifying for appointment to certain positions in public welfare offices, children's institutions, Red Cross, YMCA, YWCA, Girl Scouts, and Boy Scouts. Admission to 300-level courses in social work requires the specific consent of the instructor based upon an individual conference prior to registration.

PREPARATION FOR TEACHING

A student pursuing either the Bachelor of Arts or Bachelor of Science degree may meet the special requirements in education for certification to teach in the secondary schools in Ohio by completing the following:

Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 287—Student Teaching Lab.	2
or	
A methods course	2-3
Ed. 281—Student Teaching	2-12
Total hours required	19-20

PREPARATION FOR THEOLOGY

No fixed sequence of courses is outlined for a student who wishes to enter a theological seminary. A broad general background is advised, with a major in philosophy or the social sciences suggested. A strong background in English is urged and courses in speech are particularly valuable. The student should check the entrance requirements of the theological seminary of his choice and plan his course to meet these requirements as well as the requirements for the Bachelor of Arts degree at Ohio University.

PREPARATION FOR VETERINARY MEDICINE

Schools of veterinary medicine require sixty semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

Freshman Program

	Hours		Hours
Chem. 3-4,99—General and Qualitative Analysis	9	Speech 1—Fundamentals of	1
Eng. 3-4—Composition	6	Zool. 3-4—Principles of	6
Physical Education	2	Humanities and/or social science	8

Sophomore Program

Chem. 113—Organic	4	Zool. 107—Principles of Heredity	2
Chem. 114—Organic Chem. Laboratory	2	Humanities and/or social science to make total of 32 hours	
Math. 9-10—Fundamentals of	6		
or			
Phys. 5,6—Introduction to	8		

In addition to the above program, some schools require either farm experience or courses in agriculture, either of which must be arranged for and approved by the school of veterinary medicine. This additional requirement can be met in summers previous to enrollment or during the progress of the veterinary program.

PREPARATION FOR WORK IN JUVENILE DELINQUENCY AND CRIMINOLOGY

Police and court services and the supervision and training of juvenile delinquents, young offenders, and criminals offer career positions for college graduates with special training in these fields. Preparation should be based upon the liberal arts subjects with concentration in the social sciences and in specialized courses in sociology and social work. By careful planning the student will be able to spend the second semester of his senior year as an intern in a court or correctional institution and thus obtain experience which will assist him in qualifying for appointment in one of the above fields. To qualify for positions in metropolitan courts, federal institutions, and newer branches of correctional education, students should plan to complete the M.A. degree in sociology and social work. See the requirements for admission to the Graduate College, page 160. Admission to 300-level courses in criminology and social work requires the specific consent of the instructors based upon individual conferences prior to registration.

THE COLLEGE OF COMMERCE

KARL H. KRAUSKOPF

ACTING DEAN

Accounting

Advertising-Marketing

Agriculture

Business Law

Economics

Finance

Management

Secretarial Studies

Statistics

THE SCHOOL OF JOURNALISM

LOREN J. HORTIN

DIRECTOR

Advertising-Management

Magazine Journalism

News Writing and Editing

Public Relations

Radio-Television News

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce. The College is accredited by and is a member of the American Association of Collegiate Schools of Business.

The College also includes the Department of Agriculture, which offers programs of study leading to the degree of Bachelor of Science with a major in Agriculture, the Department of Secretarial Studies, which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism, which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the University. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. The colleges of Education and Commerce, for example, cooperate in offering teaching majors in agriculture and commerce and the colleges of Applied Science and Commerce cooperate in offering industrial technology or an industrial option in mechanical engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student may choose as an adviser a member of the College of Commerce faculty who is a specialist in the student's field of interest. Student and adviser together then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

A candidate for a degree in the College of Commerce must complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This point-hour ratio requirement applies to his total record and to his major or equivalent as determined by the college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

BACHELOR OF SCIENCE WITH A MAJOR IN AGRICULTURE

The curriculum in agriculture is designed to provide the student with a broad, basic background in the areas of agriculture, business, and science. Persons completing the work for the degree are trained to take responsible positions in the various non-farming business and scientific phases of agriculture. This curriculum also provides opportunities for the student to achieve the basic skills and training necessary for farming and for advanced study in agriculture and business.

Considerable emphasis is stressed in the laboratory and classroom on the practical application of scientific techniques in farm operations. Opportunities for practical experience in all fields are provided in the greenhouse and on the Ohio University farm.

For a teaching major in agriculture see page 131. A Preforestry curriculum is offered in the College of Arts and Sciences. See page 105.

CURRICULUM IN AGRICULTURE

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Agr. 1—Introduction to Agriculture*	3	Agr. 2—Introduction to Agriculture*	3
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3

Sophomore Program

Chem. 1—General Chemistry	4	Chem. 2—General Chemistry	4
Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Bot. 3—General Botany	3	Bot. 4—General Botany	3
Agr. 30—Forestry	3	Geol. 106—Agricultural Geology	3
Commerce elective	3	Agriculture elective	3

Junior Program

Agr. 121—Livestock Management	4	Agr. 216—Crops and Soils	4
Mkt. 155—Marketing Principles	3	Fin. 101—Financial Institutions	3
Commerce elective	3	Agriculture elective	3
Science elective	3	Science elective	3

Senior Program

Agr. 201—Agricultural Practices	3	Agr. 202—Agricultural Practices	3
Agr. 217—Soil Conservation	3	Zool. 241—Elementary Bacteriology	4
Agr. 235—Farm Management	3	Agriculture elective	3
Speech 3—Public Speaking	2	Commerce elective	3
Commerce elective	3		

*Not required for students who have had 3 years of vocational agriculture in high school.

A minimum of eight hours of required agriculture electives must be selected from the following courses:

Agr. 1,2—Introduction to Agriculture	3,3	Agr. 320—Agricultural Organizations	3
Agr. 102—Gardening	3	Ind. A. 51—Farm Shop	3
Agr. 104—Fruit Production	3		

A minimum of twelve hours of required commerce electives must be selected from the following courses:

Advt. 155—Advertising Principles	3	Mgt. 211—Industrial Management	3
B. L. 255-256—Business Law	3-3	Sec. St. 220—Business	
Fin. 121—Corporation Finance	3	Communications	3
Advanced Economics	2-3	Stat. 155—Business Statistics	4

A minimum of 6 hours of required science electives may be selected from any laboratory science.

BACHELOR OF SCIENCE IN COMMERCE

All students following programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated in the freshman, sophomore, junior, and senior programs of the curriculum outline. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The core curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economics subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the Dean of the College or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who follows a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may be stressed are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING

General accounting
Cost accounting
Public (C.P.A.) accounting

DISTRIBUTION

Marketing
Advertising
Retailing
Selling and sales management

ECONOMICS

Economic history
Economic theory
Business cycles

General

International
Labor relations
Public utilities

FINANCE

Banking
Business finance
Investments

MANAGEMENT

Personnel
Production

PREPARATION FOR LAW SCHOOL STATISTICS

Detailed information about the possibilities of developing a special interest may be obtained from the office of the Dean.

CURRICULUM IN COMMERCE

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Math. 3—Intermediate Algebra (3) or		Math. 34—Mathematics of Finance	3
Math. 5—Freshman Mathematics (5)	3-5	Speech 3—Public Speaking	2
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3
Acct. 75-76—Elementary Accounting,		which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.	

Sophomore Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Mkt. 155—Marketing Principles	3	Fin. 101—Financial Institutions*	3
Stat. 155—Business Statistics†	4	Advt. 155—Advertising Principles†	3
Eng. 293 Sophomore Composition	3	Eng.—Literature*	4
Electives	3	Electives	4
	16		16

Junior Program

Bus. L. 255—Business Law	3	Bus. L. 256—Business Law	3
Fin. 121—Corporation Finance*	3	Ec. (advanced)—Elective*	2-3
Mgt. 211—Industrial Management*	3	Electives	11
Sec. St. 220—Business Communications*	3		16-17
Electives	4		

Senior Program

Electives	16	Electives	16
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PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should follow the Bachelor of Science in Commerce degree curriculum and also elect, with the approval of his adviser, courses in other fields, especially American government, American and English history, English, philosophy, and speech.

A student who desires to enter a school of law at the end of three years of college work and receive the Bachelor of Science in Commerce degree from Ohio University after completing his first year in law school may do so, provided the following conditions are met: the student has the written approval of the dean of the College of Commerce; the requirements of the University College are met; a minimum of 94 approved semester hours, including the required courses in the Bachelor of Science in Commerce degree curriculum with the exception of Business Law 255-256, are completed with a point-hour ratio of 2.0 on all hours attempted (see page 117); and a full year's work in an accredited law school is completed with an average equivalent to that prescribed for the bachelor's degree at Ohio University, and the student is eligible for advancement without condition to the second year.

*May be taken either semester.

†Mkt. 258 or 301 may be substituted.

PERSONNEL MANAGEMENT IN INDUSTRY. The College of Commerce has designed a field of specialization which will prepare the student for personnel-management work either in industry or government service. Preparation in this field must be broadly based, and it is recommended that courses be selected on the advice and guidance of the faculty adviser from the offerings in the departments of Economics, Management, Secretarial Studies, Statistics, Government, Human Relations, Psychology, and Sociology.

OFFICE MANAGEMENT. Students interested in office management as an area of specialization should take the core curriculum for the Bachelor of Science in Commerce degree as well as Office Management, Office Procedures, Office Machines, and Typewriting. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, management, psychology, sociology, government, speech, and mathematics.

RESTAURANT MANAGEMENT. Students interested in restaurant management should take the core curriculum for the Bachelor of Science in Commerce degree plus courses in foods and nutrition selected with the advice and approval of the director of the School of Home Economics. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, government, management, psychology, and speech.

INDUSTRIAL TECHNOLOGY OR INDUSTRIAL OPTION IN MECHANICAL ENGINEERING. In recognition of the increasing need that executives in industry have a knowledge of and training in economics and business management, the College of Applied Science, in cooperation with the College of Commerce, offers two curricula, one leading to the degree of Bachelor of Science in Industrial Technology and the other leading to the degree of Bachelor of Science in Mechanical Engineering with an industrial option. These curricula are listed under the College of Applied Science.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

The curriculum leading to the degree of Bachelor of Science in Secretarial Studies is designed to give the student: (1) high proficiency in the secretarial skills, (2) an understanding of the basic business areas, and (3) a well-rounded background in cultural subjects. Persons completing the work for the degree are trained to take responsible secretarial positions. Their technical skills and training also may be used as a stepping stone to other positions in business.

For those who enter without high school credit in typewriting and shorthand, the number of hours required in secretarial, commerce, and economics subjects is 68, and the minimum number of semester hours required in other fields is 50.

Students entering with high school credits in typewriting or shorthand should enroll in the advanced classes in these subjects. Whenever a student is unable to meet the prerequisite standard of achievement for the advanced courses in shorthand or typewriting, he may change to the beginning courses in these subjects. The hours of credit earned, however, will be added to the hours for graduation.

Special care is taken to enable students to secure carefully supervised practice in the secretarial fields as a part of the curriculum. This practice includes the use of all representative office machinery and experience in using secretarial techniques under normal business office conditions.

During the student's final semester, he must take proficiency tests in shorthand, typewriting, and business procedures. These tests are similar in nature to those given in business for the selection of secretarial employees.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical education and speech are not indicated in the curriculum below. See pages 68 and 76.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3
Sec. St. 15—Beginning Typewriting	2	Sec. St. 16—Intermediate Typewriting	2
Sec. St. 31—Beginning Shorthand	3	Sec. St. 32—Intermediate Shorthand	3

Those students who enter with high school credit in typewriting and shorthand should postpone the advanced courses in these subjects until the sophomore year.

Sophomore Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Sec. St. 172—Filing Systems and Procedures	1	Sec. St. 111—Advanced Typewriting	2
Sec. St. 180—Office Machines	2	Sec. St. 181—Office Procedures	2
Mkt. 155—Marketing Principles	3	Advt. 155—Advertising Principles	3
Psych. 1—General Psychology	3	Sec. St. 173—Machine Transcription	1
Electives	4	Eng.—Elective	3
	16	Electives	2
			16

Junior Program

Sec. St. 151—Beginning Dictation and Transcription	3	Sec. St. 152—Advanced Dictation and Transcription	3
Fin. 101—Financial Institutions	3	Fin. 121—Corporation Finance	3
Eng.—Electives	3	Sec. St. 285—Office Management	3
Electives	7	Electives	7
	16		16

Senior Program

Bus. L. 255—Business Law	3	Bus. L. 256—Business Law	3
Sec. St. 220—Business Communications	3	Sec. St. 275—Secretarial Practice	3
Mgt. 211—Industrial Management (3) or		Electives	10
Mgt. 312—Administration of Personnel	3		16
Electives	7		
	16		

PREPARATION OF SECRETARIES FOR SPECIALIZED FIELDS. Students may prepare themselves to do secretarial work in specialized offices; such as legal, medical, governmental, educational, merchandising, or advertising. These students follow the secretarial studies curriculum and, in addition, select courses from a prescribed group considered basic for training in the specialized field. Careful guidance in the selection of elective courses is given by the college adviser.

BUSINESS TEACHER TRAINING. Students trained to teach business subjects in the high school should be as well prepared in the basic business and technical subjects as those trained to enter business offices. In order to prepare students for effective teaching of business subjects, the College of Education in cooperation with the College of Commerce offers comprehensive majors in the business fields. These majors, which include bookkeeping-social business and business education (comprehensive), are outlined under the "College of Education," page 131.

Students preparing to teach are expected to meet the same standards as those entering business, and are required to take proficiency tests in shorthand, in typewriting, and in business procedures during their last semester in school. These students are also given an opportunity to apply their skills and knowledge through actual working experience.

BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. It is one of a limited number of accredited schools and departments of journalism in the United States. As such, it is one of the members of the American Association of Schools and Departments of Journalism.

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take approximately two-thirds of their courses outside the professional school.

Five sequences are offered, all leading to the degree of Bachelor of Science in Journalism: *Advertising-Management*, *Magazine Journalism*, *News Writing and Editing*, *Public Relations*, and *Radio-Television News*. Along with these sequences, several specialized study areas are possible—for example, scientific writing, religious journalism, or foreign correspondence. The master of science degree is also offered for work in journalism.

While working toward their degrees, students serve on the staff of the *Athens Messenger*, an independently-owned daily newspaper. The city editor, managing editor, and advertising manager are faculty members of the School of Journalism. The student staff members of the *Messenger* gather and write news, edit local and Associated Press copy, write headlines, and prepare advertising copy and layouts. This training prepares students to take and hold jobs immediately after graduation.

Practical experience is also available in the University News Bureau, in the Photography Department, and in the journalism laboratories. Many students also add to their experience by helping edit the Ohio University *Post*, daily newspaper, the *Athena*, the university year-book, and other campus publications.

In Radio-Television News, students get practical experience in preparing and broadcasting news over the University's AM and FM stations, WOUB and WOUI, and in the University's television studios. The United Press radio news teletype service is available for journalism students in this sequence.

INTERNSHIP PROGRAM. Consistent with its policy of combining class-work with practical training, the School of Journalism has inaugurated a Journalism Internship Program. Juniors or seniors who have ranked high in their courses are eligible for appointment as interns. The period of internship is ten weeks or more during the summer. The intern is provided with as varied experience in practical journalism as possible. The intern will be paid a moderate sum for his work and study. No credit will be granted for internship work itself. However, upon completion of the internship period, a student is permitted to enroll the following semester in Journalism 370—Internship, 3 hours credit. The selection of the interns is made by the Director of the School of Journalism.

CURRICULA AND REQUIREMENTS IN JOURNALISM

Not more than 40 hours in the School of Journalism may be counted in the 124 hours required for graduation. Not more than 12 additional hours may be counted in any one of the following departments: Advertising, Photography, Radio.

Journalism students must take a group of courses specifically selected to serve as a background for journalism. These courses should include at least 20 hours of courses numbered 200 and above in other social sciences, humanities, or natural sciences. But students may, with the approval of the director, substitute up to 18 hours of courses in agriculture, commerce, home economics, education, engineering, or other fields to permit a background for specialized reporting in the chosen field.

Non-Journalism courses required of all students include:

	Hours		
English Composition	6	Speech	1-5
Literature (above freshman)	6	Foreign Languages or Humanities	3-8*
Economics	6	Mathematics	3-6*
Psychology	3	Natural Sciences	3-6*
Sociology	3	Physical Education	2
Government	3	Typewriting	2*
History	6		

Other non-journalism courses are required, but they are not the same for all sequences. See individual sequences for listing.

*Depending upon high school deficiency.

FRESHMAN PROGRAM

Freshmen should meet the requirements of the University and the University College in English Composition, Speech, Physical Education, and a year's work in each of two of the following groups: Humanities, Mathematics, Natural Sciences, and Social Sciences. In selecting the groups, the student must conform to the specific requirements based upon high school deficiencies, if he has any. He should plan his program for the freshman year to include the following courses:

Sec. St. 15—Typewriting (2), unless he can operate a typewriter by the touch system.

Hist. 1,2—Western Civilization in Modern Times (6)

Psych. 1—General Psychology (3)

All students except those expecting to enter the Advertising-Management sequence should take F. A 17—Introduction to Fine Arts (3), or two semesters of a foreign language. Students preparing for Advertising-Management will find it advantageous to take Ec. 11-12—Principles of Economics (6) in their freshman year and may, if necessary, have the requirement in History delayed to permit scheduling of the Economics course. Acct. 75-76—Elementary Accounting (6) also may be taken in the freshman year.

If a student chooses to fulfill his group requirements with science, he should take Biol. 1-2—The Living World (6), or Phys. Sci. 3,4—The Physical World (6).

ADVERTISING-MANAGEMENT

Sophomore Program

	Hours		Hours
Acct. 75—Elementary Accounting	3	Jour. 146—Typography, Mechanics, and	
Advt. 155—Advertising Principles	3	Makeup	3
Jour. 107—Newspaper Reporting	3	Mkt. 155—Marketing Principles	3

Students interested in Management training will take in addition:

Acct. 76—Elementary Accounting (3) and Jour. 105—History of American Journalism (3).

Junior Program

Jour. 217—Newspaper and Magazine Editing	3	Jour. 247—Newspaper Advertising and Layout	3
--	---	--	---

Advertising students will take these courses:

Advt. 286—Retail Advertising	3	Jour. 348—Advertising Production	2
Jour. 309—Radio-TV Advertising and Management	3		

Management students will take these courses:

Bus. L. 255—Business Law	3	Mgt. 211—Industrial Management	3
Jour. 251—Contemporary Thought and Developments	3		

Senior Program

Jour. 277—Newspaper Advertising Practice	2 each semester	Jour. 306—Newspaper and Communications Law	3
		Jour. 343—Newspaper Management	2

Advertising students also will take Advt. 332—Copy Writing (2).

Management students also will take Psych. 231—Employee Selection and Placement (2).

Electives should include an advanced Economics course.

MAGAZINE JOURNALISM

Sophomore Program

	Hours		Hours
Ec. 11-12—Principles of Economics	6	Jour. 105—History of American Journalism	3
Eng. 101, 102—Sophomore English Literature or		Jour. 107—Newspaper Reporting	3
Eng. 111, 112—Chief American Writers (total of 6)		Jour. 146—Typography, Mechanics, and Makeup	3
		Soc. 1—General Sociology	3

Junior Program

Eng. 290—Creative Writing	3	Jour. 251—Contemporary Thought and Developments	3
Jour. 111—Reporting Practice	2	Jour. 329—Business and Magazine Journalism	2
Jour. 217—Newspaper and Magazine Editing	3	Photog. 133—Basic News Photography	3
Jour. 230—Reviewing and Criticism	2		

Senior Program

Jour. 221—Editing Practice	2 or	Jour. 322—Feature and Magazine Writing	3
Photog. 145—Workshop in Photography	3	Jour. 323—Advanced Feature and Magazine Writing	2
Jour. 306—Newspaper and Communications Law	2		

NEWS WRITING AND EDITING

Sophomore Program

	Hours		Hours
Ec. 11-12—Principles of Economics	6	Jour. 146—Typography, Mechanics, and Makeup	3
Jour. 105—History of American Journalism	3	Radio-TV 79—Introduction to Radio-TV	2
Jour. 107—Newspaper Reporting	3	Soc. 1—General Sociology	3

Junior Program

Advt. 155—Advertising Principles	3	Jour. 251—Contemporary Thought and Developments	3
Jour. 111—Reporting Practice (2 each semester)		Photog. 133—Basic News Photography	3
Jour. 217—Newspaper and Magazine Editing	3		

Senior Program

Jour. 221—Editing Practice	2	Jour. 307—Reporting of Public Affairs	2
Jour. 306—Newspaper and Communications Law	2	Jour. 325—The Editorial Page	2
		Jour. 343—Newspaper Management	2

PUBLIC RELATIONS

Sophomore Program

	Hours		Hours
Advt. 155—Advertising Principles	3	Jour. 107—Newspaper Reporting	3
Ec. 11-12—Principles of Economics	6	Jour. 146—Typography, Mechanics, and Makeup	3
Jour. 105—History of American Journalism	3	Soc. 1—General Sociology	3

Junior Program

Jour. 111—Reporting Practice	2	Photog. 133—Basic News Photography	3
Jour. 217—Newspaper and Magazine Editing	3	Psych. 315—Social Psychology	3
Jour. 251—Contemporary Thought and Developments	3	Radio-TV 79—Introduction to Radio-TV	2
		Speech 3—Public Speaking	2

Senior Program

Advt. 332—Copy Writing -----	2	Jour. 329—Business and Magazine Journalism -----	2
H. R. 303—Human Relations -----	3	Jour. 348—Advertising Production -----	2
Jour. 306—Newspaper and Communications Law -----	2	Psych. 341—Psychology of Communications -----	3
Jour. 327—Public Relations Techniques -----	3	Soc. 336—Public Opinion and Mass Communications -----	3
Jour. 328—Public Relations -----	3		

The course in Human Relations and the advanced courses in Psychology and Sociology listed above are a partial fulfillment of the requirement that students must take at least 20 hours of courses numbered 200 and above in departments other than journalism, advertising, and radio.

RADIO-TELEVISION NEWS

Sophomore Program

	Hours		Hours
Ec. 11-12—Principles of Economics ---	6	Radio-TV 79—Introduction to Radio-TV -----	2
Jour. 107—Newspaper Reporting -----	3	Radio-TV 180—Radio Speech -----	3
Photog. 133—Basic News Photography ---	3	Speech 2—Voice and Articulation ----	2

Junior Program

Advt. 155—Advertising Principles -----	3	Jour. 280—Radio-TV News Writing and Editing -----	2
Jour. 111—Reporting Practice -----	2	Radio-TV 301—Principles of TV Production -----	3
Jour. 251—Contemporary Thought and Developments -----	3		

Senior Program

Jour. 285—Radio-TV News Practice -----	4	Jour. 306—Newspaper and Communications Law -----	2
Jour. 303—TV News Production -----	3	Jour. 309—Radio-TV Advertising and Management -----	3

THE COLLEGE OF EDUCATION

F. N. HAMBLIN

DEAN

Elementary Education

Secondary Education

Guidance and Counseling

Teaching Special Subjects

School Administration and Supervision

Library Science

Research and Scientific Techniques

History and Philosophy of Education

Student Teaching

Center for Educational Service

Teaching Certificates

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges; for positions as supervisors, school principals, or superintendents; and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge, and the professional understanding and skill which are requirements for professional success.

The College of Education is accredited by the National Council for Accreditation of Teacher Education, and is approved for teacher training by the State of Ohio Department of Education.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: in the broad awareness of the principal academic fields developed through a true university education; in the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and in the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University, including a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on one of the approved programs in the College of Education. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits. These programs are of four main types:

Elementary Education. This program prepares for teaching in kindergarten, primary, or intermediate grades, with specialization in one of these groups.

Secondary Education. This program prepares for teaching any of the academic fields in high school. Students planning to teach at the secondary school level will ordinarily be prepared in one or more minor teaching subjects, in addition to their major field. Such minors should be carefully selected in consultation with the student's adviser, in the light of the student's interests and abilities. (See outlines for the majors beginning on page 130.)





Teaching Special Subjects. Such special subjects as art, home economics, industrial arts, music, physical education, speech, and speech and hearing therapy are ordinarily not limited to any grade level. Students who major in these subjects will be prepared to teach their specialty in both elementary and high school.

ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education.

Psych. 1—General Psychology	3	Govt. 106—Current Political and Social Problems or	
Psych. 5—Educational Psychology	3	Soc. Sci. 10—Citizenship in the	
Eng. 3-4—English Composition	6	Modern World	2-3
Eng. 111 or 112—Chief American Writers	3	Social science elective	3-4
Speech 1—Fundamentals of Speech	1	Ed. 102—Literature for Children	3
Physical education	2	Ed. 103—Studies of Children	3
P.E. 102—Personal and Community Health	3	Ed. 165—Teaching Arithmetic in the Elementary School	3
P.E. 270—Teaching of Physical Education	1	Ed. 163—Teaching Reading and Language in the Elementary School	3
Mus. 72—Music Fundamentals	2	Ed. 169—Teaching Social Studies and Science in the Elementary School	3
Mus. 266—Teaching of Music in Elementary Grades	2	Ed. 210—Student Teacher Laboratory	3
Art 3—Elementary Design for Teachers	2	Ed. 272—Student Teaching in the Elementary Grades	7
Art 160—Practical Design Workshop for Elementary Teachers	3	E. 211—The Child and the Curriculum	3
Select from following:	9	Ed. 277—Field Experience in Student Teaching	2
Biol. 1-2—The Living World		Electives in education	2
Phys. Sci. 3-4—The Physical World		Ed. 101—Materials and Methods in Kindergarten Primary Education	2
Hist. 1, 2—Western Civilization in Modern Times	6	[Required of Kindergarten - Primary majors]	
Hist. 102—History of the United States	3	Electives to total 124 semester hrs. for graduation.	
Geog. 150—Geography and Environment	3		

Kindergarten-Primary Education. A student majoring in Elementary Education may receive the kindergarten-primary certificate by completing the general pattern of the elementary curriculum as shown above. Student teaching must be done on the kindergarten-primary level and specialized courses in theory, materials, and methods of kindergarten-primary education must be taken as indicated by the adviser.

SPECIAL CADET PROGRAM

To assist in meeting the critical shortage of elementary teachers, Ohio University will tentatively continue to offer a special two-year program. *The four-year provisional "cadet" certificate is granted upon the satisfactory completion of this accelerated course.* Only those high school graduates who are superior both in academic aptitude and in social maturity, are encouraged to enter this program, which should be pursued in four successive regular semesters. The provisional cadet certificate may be renewed only upon completion of 24 semester hours of *additional* credit applicable to the degree in elementary education.

The program for the Cadet Provisional Certificate is as follows:

Freshman Program

First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Ed. 102—Literature for Children	3
Biol. 1—The Living World	3	Biol. 2—The Living World	3
Psych. 1—General Psychology	3	Mus. 72—Music Fundamentals	2
Speech 1—Fundamentals of Speech	1	Hist. 101 or 102—History of the United States	3
Art 160—Practical Design Workshop for Elementary Teachers	2	P. E. 102—Personal and Community Health	3
P. E.—Physical education	1		

Sophomore Program

Ed. 103—Studies of Children	3	Ed. 169—Teaching of Social Studies and Science in the Elementary School	3
Ed. 163—Teaching of Reading and Language	3	Ed. 210—Student Teaching Laboratory	3
Ed. 165—Teaching of Arithmetic in the Elementary School	3	Ed. 272—Student Teaching in the Ele- mentary Grades	7
Mus. 266—Teaching of Music in Elementary Grades	2	Electives	2
Geog. 150—Geography and Environment	3		

SECONDARY EDUCATION

The following are the *general requirements* for all students in the College of Education who plan to specialize in the teaching of the *academic subjects* in the secondary school.

- Psychology ----- 6
 - Psych. 1—General Psychology ----- 3
 - Psych. 5—Educational Psychology ----- 3
- Education ----- 16-17
 - Ed. 130—Secondary Education ----- 3
 - Ed. 229—Curriculum and Teaching Practices ----- 4
 - Ed. 281—Observation and Student Teaching in High School ----- 7
 - Ed. 287—Student Teaching Laboratory — or ----- 2-3
 - Methods in Major ----- 2-3
- English ----- 12
 - Eng. 3-4—English Composition ----- 6
 - Eng. 101 or 102—Sophomore English Literature and
Eng. 111 or 112—The Chief American Writers ----- 6
- Humanities (Fine or Applied Arts or Philosophy) ----- 6
- Mathematics (as required by University College)
- Military Science (See page 70.) ----- 2
- Physical Education (See page 70.) ----- 2
- Natural Science ----- 6-8
 - (One year in one field): biology, botany, zoology; chemistry,
physics, geology.)
- Social Studies ----- 12
 - History 101 or 102—History of the United States ----- 3
 - Economics, sociology, geography, government, or
Social Science 9 or 10 ----- 3
 - Social science electives ----- 6
- Speech 1—Fundamentals of Speech ----- 1
- Elective approved by adviser ----- 2-3

Specialization requirements for a major in academic high school subjects.

Agriculture

Select 27 semester hours in agriculture:

Agr. 1, 2—Introduction to Agriculture	6	Agr. 216—Crops and Soils	4
Agr. 30—Forestry	3	Agr. 217—Soil Conservation	3
Agr. 102—Gardening	3	Agr. 235—Farm Management	3
Agr. 104—Fruit Production	3	Geol. 106—Agricultural	3
Agr. 121—Livestock Management	4	Ind. A. 51—Farm Shop	3
Agr. 201, 202,—Agricultural Practices	6		

Biological Science

Bot. 3-4—General Botany	6	Bot. 203—Plant Ecology (4)	
Any three of the following courses or groups of courses:	9-10	Bot. 212—Plant Microtechnique (3)	
Bot. 105—Elementary Plant Physiology (3)		Zool. 3-4—Principles of Zoology	6
Bot. 106—Local Flora (3) or		Any three of the following courses:	9-10
Bot. 117—Dendrology (3)		Zool. 107—Principles of Heredity (3)	
Bot. 123—Introduction to the Fungi (3)		Zool. 113—Biology of Vertebrates (4)	
Bot. 173—Elementary Plant Morphology (3) or		Zool. 118—Ornithology (3)	
Bot. 211—Plant Anatomy (3)		Zool. 121—Elements of Anatomy (3)	
		Zool. 216—Animal Communities (4)	
		Zool. 219—General Entomology (4)	
		Zool. 235—Elements of Physiology (4)	

Commerce—Bookkeeping-Basic Business

Acct. 75-76—Elementary Accounting	6	Mkt. 271—Principles of Personal Selling	2
Acct. 125—Intermediate Accounting	3	Fin. 101—Financial Institutions	3
Bus. L. 255-256—Business Law	6	Sec. St. 261—Teaching of Business Subjects	3
Ec. 11-12 or 101-102—Principles of Economics	6	Electives in commerce	6
Geog. 15—Economic Geography	3	(Suggested: Sec. St. 15, 16 —Typewriting)	
Sec. St. 180—Office Machines	2		
Mgt. 3—Introduction to Business	3		
Mkt. 155—Marketing Principles	3		

Commerce—Business Education

Acct. 75-76—Elementary Accounting	6	Sec. St. 152—Advanced Dictation and Transcription	3
Adv. 155—Principles of Advertising	3	Sec. St. 172—Filing Systems and Procedures	1
Bus. L. 255—Business Law	3	Sec. St. 173—Machine Transcription	1
Mgt. 3—Introduction to Business	3	Sec. St. 180—Office Machines	2
Ec. 11-12—Principles of Economics	6	Sec. St. 181—Office Procedures	2
Mkt. 155—Principles of Marketing	3	Sec. St. 220—Business Communications	3
Sec. St. 15—Beginning Typewriting	2	Sec. St. 275—Secretarial Practice	3
Sec. St. 16—Intermediate Typewriting	2	Sec. St. 285—Office Management	3
Sec. St. 31—Beginning Shorthand	3	Sec. St. 261—Teaching of Business Subjects	3
Sec. St. 32—Intermediate Shorthand	3		
Sec. St. 111—Advanced Typewriting	2		
Sec. St. 151—Beginning Dictation and Transcription	3		

Earth Science

Geog. 3-4—Elements of Phys. Geog.; World Regional Geog. (6) or		Geog. 232—Conservation of Natural Resources	3
Geog. 150—Geography and Environment (3)	3-6	Geol. 1-2—Elements of Geology	6
Geog. 175—Fundamentals of Meteor- ology	3	Geol. 111-112—Historical Geology	4
Geog. 202—Geography of the United States and Canada	3	Geol. 223—Principles of Geomorphology	3
		Electives in geography or geology to make 34 sem. hrs.	

English

Eng. 3-4—English Composition	6	Eng. 264—Teaching of High School English	3
Eng. 101 or 102—Sophomore English Literature and		Eng. 293—Sophomore Composition	3
Eng. 111 or 112—The Chief American Writers	6	Additional electives suggested from the fields of library science, dra- matic arts, speech correction, or journalism.	
Eng.—Approved electives (preferably on 300 level)	16		
Elective in library science	2-3		

French

Fr. 1-2—Beginning French	8	Fr.—Approved electives	14
Fr. 101-102—Intermediate French	8		

German

Ger. 1-2—Beginning German	8	Ger. 209-210—German Grammar and	
Ger. 101-102—Intermediate German	8	Composition	4
		Ger.—Approved electives	10

History and Government

Govt. 1, 2—American Government	6	Hist. 101, 102—History of the United	
Hist. 1, 2—Western Civilization in		States	6
Modern Times	6	Approved electives:	
Hist. 269—Teaching of Social Studies		History	6
in Junior and Senior High		Government or history	4
Schools	2		

Latin

Lat. 101—Latin Review and Reading	4	Lat. 331—The Life of the Romans	2
Lat. 102—Vergil	4	Lat. 333—Advanced Latin Syntax	2
Lat. 151—Familiar Essays	3	Lat. and Gk.—Approved electives	10
Lat. 152—Horace and Terence	3		

Library Science

Minor for certification for teacher-librarians includes 16 hours from the following:

Ed. 102—Lit. for Children	3	Lib. Sci. 202—Books for High School	
Lib. Sci. 191—History of Libraries and		Readers	3
The Use of Library Resources	3	Lib. Sci. 291—The School Library	3
Lib. Sci. 192—Classification and Cata-		Lib. Sci. 393—Administrative Problems	
loging of Books	3	in a School Library	3
Lib. Sci. 194—History of Books and			
Printing	3		

Mathematics

Math. 5, 6—Freshman Mathematics;		Astron. 11 or 12—Elementary	
Analytic Geometry and Calculus		Astronomy (3)	
I	10	Math. 34—Mathematics of Finance (3)	
Math. 101—Analytic Geometry and		Math. 107—Elementary Statistics (3)	
Calculus II	4	Math. 301—Theory of Equations (3)	
Math. 102—Analytical Geometry and		Math. 317—Introduction to Modern	
Calculus III	4	Algebra (3)	
Math. 104—College Geometry	3	Math. 268—Teaching of Mathematics	
Ed. 263—Teaching of Arithmetic in		in High School	2-3
the Upper Grades	3	Ed. 381—Educational Statistics	3
Select from following:	2-3		

Physical Science

Chem. 3-4—General Chemistry or		Math. 5-6—Freshman Mathematics;	
Chem. 1-2—General Chemistry	8	Analytic Geometry and	
Chem. 99—Qualitative Analysis	2	Calculus I	10
Chem. 107—Quantitative Analysis or		Phys. 5, 6—Introduction to Physics or	
Chem. 113—Organic Chemistry	4	Phys. 113-114—General Physics	8
		Phys. 115—Modern Physics	3

Psychology*

Psych. 1—General Psychology	3	Psych. 209—Experimental Psy-	
Psych. 5—Educational Psychology	3	chology (3)	
Psych. 103—Child Psychology or		Psych. 316—Psychology of Individual	
Psych. 113—Psychology of Adolescence	2	Differences (2)	
Psych. 303—Mental Measurements	3	Psych. 309—Motivation and Emo-	
Psych. 310—Mental Hygiene	3	tions (3)	
Psych. 320—Personnel and Vocational		Psych. 319—Psychology of Person-	
Counseling	3	ality (3)	
Psych. electives (to be chosen in con-		Psych. 406—An Introduction to	
sultation with a departmental		Psychodiagnosis (3)	
adviser and selected from the		Psych. 353—Learning and Memory	
following):	12	(3)	
Psych. 204—Psychology of Excep-		Psych. 337—Counseling and	
tional Children (2)		Psychotherapy (3)	

*Persons selecting a psychology major will be expected to complete certification requirements in two high school subjects.

Science—Comprehensive Major

Chemistry, Physics, Botany-Zoology, as approved by major adviser, with 20 semester hours in one of these sciences, and 8 semester hours in each of the other two fields -----	Astronomy, geology, meteorology, or mathematics, or excess course work in above -----	9
		36

Social Studies—Comprehensive Major

Soc. Sci. 9—Citizenship in the Modern World or	Hist. 101, 102—History of the United States -----	6
Soc. 1—General Sociology -----	Govt. 1—American Government -----	3
Hist. 1, 2—Western Civilization in Modern Times -----	Geog. 150—Geography and Environment -----	3
Mgt. 3—Introduction to Business or	Electives in history -----	9
Ec. 11 or 101—Principles of Economics -----	Additional electives in above fields -----	12

Spanish

Sp. 1-2—Beginning Spanish -----	8	Sp.—Approved electives -----	14
Sp. 101-102—Intermediate Spanish -----	8		

In addition to the majors described above, a student in the College of Education may arrange another major when such arrangements meet his needs. The student will be expected to meet the *professional* requirements for certification, and qualify for certification in at least two teaching areas as described by the State Department of Education.

TEACHING SPECIAL SUBJECTS

The following are the *general requirements* for students in the College of Education who plan to specialize in the teaching of the *special subjects*. A special program for Speech and Hearing Therapy students will be found on page 136.

1. Psychology -----	6
Psych. 1—General Psychology -----	3
Psych. 5—Educational Psychology -----	3
2. Education* -----	14
Ed. 130—Secondary Education -----	3
Ed. 229—Curriculum and Teaching Practices -----	4
Ed. 281—Observation and Student Teaching in High School -----	7
Special Methods (See Major)	
3. English -----	9
English 3-4—English Composition -----	6
English 101, 102, 111 or 112 -----	3
4. Humanities (Fine or Applied Arts or Philosophy — unless the requirement is met by the major) -----	6
5. Mathematics (as required by University College)	
6. Military Science (See page 70.)	
7. Physical Education (See page 70.) -----	2
8. Natural Science -----	6-8
(One year in one field): Biology, Botany, Zoology; Chemistry, Physics, Geology)	

*Special methods in the subject to be taught are not included in the total.

9. Social Studies -----	9
History 101 or 102—History of the United States -----	3
Economics, sociology, geography, government, or	
Social Science 9, 10 -----	3
Social Science elective -----	3
10. Speech 1—Fundamentals of Speech -----	1
11. Elective approved by adviser -----	2-3

Specialization requirements for a major in special subjects:

Art

Hours	Hours
Art 1-2—Drawing and Design -----	6
Art 101-102—Drawing and Design -----	6
Art 21—Elementary Sculpture -----	2
Art 23—Figure Drawing -----	2
Art 103—Representation -----	3
Art 111—Drawing Workshop -----	2
Art 113—Lettering -----	3
Art 115—Ceramics -----	3
Art 118—Watercolor -----	3
Art 120—Textile Design -----	3
F. A. 121-122—History of Painting	
and Sculpture -----	6
Art 123—Jewelry -----	2
Art 128—Advanced Figure Drawing -----	3
Art 137—Fashion Design -----	2
Art 205—Painting -----	2
Art 240—Design Applied to	
Materials -----	2
Art 260—Teaching of Art -----	3
Art 271—Interior Design -----	3
Art 309—Prints -----	3
Photog. 77—Basic Photography -----	2
Either of the following:	
Arch. 257—Fundamentals of	
Residential Architecture -----	2
Arch. 375—Architecture in the	
United States -----	2

Home Economics

H. Ec. 1-2—Foods, Nutrition, and Meal Planning -----	6
H. Ec. 3-4—Clothing Selection and Construction -----	4
H. Ec. 5—Child Development -----	3
H. Ec. 6—Family Living -----	3
H. Ec. 7—The Home and Its Furnishings -----	2
H. Ec. 51—Orientation in Home Economics -----	2
H. Ec. 108—Consumer Problems of the Family -----	2
H. Ec. 161—Home Nursing and Family Health -----	2
H. Ec. 110—Textiles -----	2
H. Ec. 125—Family Nutrition -----	3
H. Ec. 172—Advanced Child Development -----	2
H. Ec. 268—Teaching of Home Economics -----	3
H. Ec. 316—Tailoring -----	3
H. Ec. 327—Quantity Cookery -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3
H. Ec. 334—Household Equipment -----	3
H. Ec. 351—Home Management -----	2
H. Ec. 353—Home Management Laboratory -----	3
H. Ec. 368—Demonstration Techniques -----	2
Chem. 1-2—General Chemistry (8) or	
Biol. 1-2—The Living World (6) or	
Zool. 3, 4—Principles of Zoology (6) -----	6-8
Art 1, 2—Drawing and Design (6) or	
Art 91—Design and Composition (3) -----	3-6
Zool. 241—Elementary Bacteriology -----	4

Industrial Arts

Ind. A. 1, 2—General Woodworking I, II -----	6
Ind. A. 9—Craft and Hobby Work -----	2
Ind. A. 11—Duplicating -----	3
Ind. A. 13—General Cold Metals -----	3
Ind. A. 14—General Hot Metals -----	3
Ind. A. 105—Materials and Finishes -----	3
Ind. A. 116—Constructive Design -----	2
Ind. A. 131—Intro. to Ceramics -----	2
Ind. A. 133—Practical Electricity -----	3
Ind. A. 134—Practical Power and Transportation -----	3
Ind. A. 141—Printing -----	3
Ind. A. 260—Teaching of Industrial Arts -----	3
Ind. A. 309—Administration of the General Shop -----	3
Electives in Industrial Arts -----	6
E. D. 1—Engineering Drawing -----	2
E. D. 15—Industrial Arts Drawing -----	3

By taking the core courses listed and appropriate electives, a specialization in drawing, graphic arts, metalworking, or woodworking may be developed.

Music—General Supervision

Applied Music (16 hrs.):	F. A. 123-124—History of Music	6
Mus.—Voice (must include completion of Voice 14)	Mus. 201—Analysis and Form	2
Mus.—Piano (must include completion of Piano 6)	Mus. 233—Instrumentation	3
Mus.—Additional study in selected fields of applied music	Mus. 261—String Techniques and Materials	2
Mus.—Chorus	Mus. 263—Wind and Percussion Techniques and Materials	2
Mus.—Participation elective (Chorus, Band, Orchestra)	Mus. 267—Supervision of Music in the Elementary School	3
Mus. 3-4—Theory	Mus. 268—Music in the Junior and Senior High School	3
Mus. 103-104—Dictation and Sight Singing	Mus. 265—Vocal Techniques and Materials	2
Mus. 105-106—Harmony	Mus. 273—Conducting	2

Music—Instrumental Supervision

Applied Music (17 hrs.):	Mus. 3-4—Theory	6
Mus.—Major Instrument (must include completion of course 18)	Mus. 103-104—Dictation and Sight Singing	4
Mus.—Minor Instrument (if major instrument is wind, 3 hrs. must be in strings; if major instrument is stringed, 3 hours must be in winds)	Mus. 105-106—Harmony	6
Mus.—Piano (must include completion of Piano 4)	F. A. 123-124—History of Music	6
Mus.—Voice	Mus. 201—Analysis and Form	2
Mus.—Band	Mus. 233—Instrumentation	3
Mus.—Orchestra	Mus. 261—String Techniques and Materials	2
Mus.—Chorus	Mus. 263—Wind and Percussion Techniques and Materials	6
	Mus. 268—Music in the Junior and Senior High School	3
	Mus. 273—Conducting	2

Physical Education—Men

P. E. 65—Program Skills	2	P. E. 268—Athletic Coaching	2-4
P. E. 66—Program Skills	2	P. E. 304—History and Principles	3
P. E. 102—Personal and Community Health	3	P. E. 306—Organization and Administration	2
P. E. 121—Program Skills	2	P. E. 395—School Health Problems or Psych. 310—Mental Hygiene	3
P. E. 122—Program Skills	1	Zool. 3—Principles of Zoology	3
P. E. 127—First Aid	2	Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 135—Program Techniques	1	Ed. 103—Studies of Children	3
P. E. 150—Recreation	3	P. E. 269—Teaching of Health	3
P. E. 233—Theory of Adapted Activities	2		
P. E. 267—Athletic Coaching	2-4		

Physical Education—Women

P. E. 1—Hockey and Soccer	1	P. E. 306—Organization and Administration	2
P. E. 4—Intermediate Swimming	1	H. E. 161—Home Nursing and Family Health (2) or	
P. E. 6—Elementary Tap Dancing	1	P. E. 395—School Health Problems (3) or	
P. E. 7—Beginning Modern Dance	1	Psych. 310—Mental Hygiene (3)	2-3
P. E. 8—Intermediate Modern Dance	1	Zool. 3—Principles of Zoology	3
P. E. 17—Beginning Tennis	1	Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 102—Personal and Community Health	3	Ed. 103—Studies of Children	3
P. E. 121, 122—Program Skills	4	P. E. 272—Coaching Methods	2
P. E. 127—First Aid	2	P. E. 273—Coaching Methods	2
P. E. 131—Mass Games	1	P. E. 269—Teaching of Health	3
P. E. 135—Program Techniques	1	P. E. 274, 275—Teaching of Rhythmic Activities	2
P. E. 150—Recreation	3		
P. E. 233—Theory of Adapted Activities	2		
P. E. 304—History and Principles	3		

Speech

Speech 2—Voice and Articulation	2	Dram. A. 21—Elements of Stage Scenery	3
Speech 3—Public Speaking	2	Dram. A. 48—Make-Up	1
Speech 25—Principles of Argumentation	2	Dram. A. 99—Movement and Pantomime	2
Speech 34—Oral Interpretation of Literature	3	Dram. A. 207—Costuming	4
Speech 104—Bases of Speech	3	Dram. A. 123—Elements of Stage Lighting	3
Speech 112—Advanced Public Speaking	2	Dram. A. 299—Principles of Acting	3
Speech 195—Principles of Speech Correction	3	Dram. A. 350—Play Direction	8
Speech 307—Clinical Methods	3	Dram. A. 260—Teaching of High School Dramatics and Speech	3
Speech 325—Direction of Forensic Programs	3		
Radio-TV 79—Introduction to Radio-TV	2		

Speech and Hearing Therapy

The following program includes all the requirements, except those established by deficiencies in the high school pattern, for students preparing to be speech and hearing therapists in the public schools. This program meets the requirements of the State of Ohio for the special certificate in this field.

General, Education, and Psychology Requirements:		Speech Requirements:	
	Hours		Hours
Eng. 3-4—English Composition	6	Dram. A. 10—Introduction to Theatre	2
Eng. 101, 102, 111 or 112	3	Radio-TV 79—Introduction to Radio-TV	2
Social Studies (history, government, sociology, economics, geography, Social Science 9, 10)	9	Speech 2—Voice and Articulation	2
Natural Science or Mathematics (biology, botany, zoology, physics, chemistry, or mathematics)	6-10	Speech 3—Public Speaking	2
Speech 1—Fundamentals	1	Speech 25—Prin. of Argumentation	2
Physical Education	2	Speech 34—Oral Interpretation of Literature	3
Ed. 103—Studies of Children or		Speech 104—Bases of Speech	3
Psych. 103—Child Psychology	3	Speech 195—Principles of Speech Correction	3
Ed. 125—Purposes and Practices of Education	3	Speech 247—Clinical Practice in Speech Correction	1
Ed. 229—Curriculum and Teaching Practices	4	Speech 307—Clinical Methods	3
Speech 262—Speech and Hearing Therapy in the Public Schools	2	Speech 310—Speech Pathology	3
Ed. 272—Student Teaching	5	Speech 312—Phonetics	3
Psych. 1 or 101—General Psychology	3	Speech 319—Audiometry and Speech and Hearing Problems	3
Psych. 5—Educational Psychology	3	Speech 320—Advanced Clinical Methods	3
Psych. 113—Psychology of Adolescence	2	Speech 323—Lip Reading	3
Psych. 204—Psychology of Exceptional Children	2	Speech 335—Diagnostic Procedures in Speech and Hearing Therapy	3
Psych. 310—Mental Hygiene	3	Speech 345—Stuttering and Psychogenic Disorders of Speech	3

PREPARATION FOR PUPIL PERSONNEL SERVICE

Pupil Personnel Service involves the work of the School Counselor, the School Psychologist, and the Visiting Teacher. In the State of Ohio, and many other states, professional workers in these fields must earn a state certificate. This requires teaching experience and graduate work beyond the bachelor's degree, including a master's degree for the counselor and the school psychologist.

SCHOOL COUNSELOR. The certified counselor must hold a master's degree in guidance and have three years of experience, one of which must be in teaching. Undergraduates interested in this field will prepare to be teachers and should also take the following courses (starred courses are required):

*Ed. 360—Guidance Principles (3)

*Ed. 361—Guidance Practice (3)

*Ed. 362—Information Service in Guidance (2)

At least two courses from the following:

Ed. 103—Studies of Children (3)

Ed. 385—Educational Measurements (3)

Ed. 381—Educational Statistics (3)

Psych. 113—Psychology of Adolescence (2)

Psych. 204—Psychology of Exceptional Children (2)

Psych. 231—Employee Selection and Placement (2)

Psych. 310—Mental Hygiene (3)

Graduate students who desire preparation in this field will find programs outlined in the Graduate College Bulletin under Education.

SCHOOL PSYCHOLOGIST. The certified school psychologist must have one year of teaching experience and must hold a master's degree which includes at least twenty hours of work distributed as follows: Clinical work and individual testing (9-12 hours), group testing of intelligence and school achievement (2-4 hours), child development (4-5 hours), psychology of learning (3-5 hours), and counseling with laboratory practice (2-5 hours). Undergraduates interested in this field should prepare to teach and should include in their programs as much of the strictly undergraduate work in psychology as possible. Because the school psychologist is so often involved in problems of special education, the student should take work also in the field of special education.

VISITING TEACHER. The certified visiting teacher must have at least one year of teaching experience and must have earned at least 20 hours of graduate credit in child development, measurements, community organization, pupil personnel work, guidance, school administration, and orientation to social case work. Undergraduates interested in this field should prepare to teach and should include in their program as much work in the areas listed above as is possible within degree requirements and the availability of undergraduate courses.

STUDENT TEACHING

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed, under the supervision of Ohio University, at least six hours of observation, participation, and student teaching, of which at least three hours are in student teaching. The degree of Bachelor of Science in Education will be granted only to candidates who have given, within the five years immediately preceding, satisfactory evidence of a high degree of teaching skill, and a knowledge of modern methods and ability to employ them in the classroom.

APPLICATION: It is the responsibility of the student to enter an application for student teaching in the office of the Director of Student Teaching, not later than the middle of the academic year preceding the year in which he desires a student teaching assignment.

FACILITIES: Due to limited facilities available for student teaching in the city of Athens and a commuting radius of thirty miles, it is necessary for a large number of student teachers to be assigned to off-campus locations. Student teachers are assigned to the public school systems of the cities where there are Ohio University Branches and in the city of Cleveland. Students who are assigned in the local area are assigned to the University Elementary School, the Athens city elementary and high schools, and to the school systems of The Plains, Mechanicsburg, Nelsonville, and Logan.

SCHEDULE: Students assigned to off-campus centers have the opportunity to experience the complete range of a teacher's activities in their full-time student teaching assignments. It is necessary for all students who pursue curricula leading to teacher certification to plan carefully during their first three years of college so that they may spend one complete semester off campus for student teaching. Student Teachers in elementary education may engage in student teaching in either the second semester of the Junior year or the first semester of the Senior year. Student teachers in secondary education and in the special fields normally take student teaching in the Senior year. The limited number of student teaching applicants who can be assigned in the local area are restricted to half-day assignments. These students must have either a morning or an afternoon free in their schedule for student teaching.

PREREQUISITES FOR STUDENT TEACHING:

A. General Prerequisites

1. **Residence:** at least one semester of residence work must be completed prior to admission to student teaching.
2. **Scholastic Average:** the student must have a point-hour ratio of 2.0 (C) on all hours attempted.
3. **English Proficiency:** the student must have demonstrated proficiency in English usage. This requirement may be satisfied by earning an "A" or "B" in English 4, or by passing the English proficiency test. (All transfer students must pass the English proficiency test regardless of the English grade transferred from another institution.)
4. **Speech Proficiency:** the student must have successfully passed a speech proficiency test given by the Speech Department. A card certifying that this test has been passed must be on file in the Office of the Director of Student Teaching.
5. **Field Experience:** All students in the elementary education curricula must present evidence of an experience of ten consecutive school days duration in an elementary school during the opening days of the public school in the fall. Students in secondary academic and special subjects should present evidence of an adequate background of Field Experience. This field experience shall include either or both of the following types:
 - a. An experience of ten consecutive school days duration in a secondary school during the opening days of school in the fall;
 - b. Experience in working with children in informal situations such as camp counseling and playground supervision.Field experience in September in a public school should be taken no later than the September prior to the student's Junior year. Any student who engages in ten consecutive days of experience in the public school in September may elect to secure course credit by enrolling for Education 277 in the fall semester.

- B. Special Prerequisites for Student Teaching in Elementary Education.
1. Completion of at least seventy-five semester hours of course credit.
 2. 2.0 (C) cumulative point-hour ratio on all courses completed in the following group:
 - a. Ed. 102-Literature for Children
 - b. Ed. 103-Studies of Children
 - c. Ed. 165-Teaching of Arithmetic
 - d. Ed. 163-Teaching of Reading and Languages
 - e. Ed. 169-Teaching of Social Studies and Science
 - f. Mus. 266-Teaching of Music in the Elementary Grades
 - g. Art 160-Practical Design Workshop for Elementary Teachers.
 - h. P.E. 270-Teaching of Physical Education
 - i. Psych. 5-Educational Psychology
 3. A student who has more than one "D" in the three courses, Ed. 103, Studies of Children, Ed. 163, Teaching of Reading and Language; and Ed. 165, Teaching of Arithmetic, will not be admitted to Student Teaching.
- C. Special Prerequisites for Student Teaching in Secondary Academic and Special Subjects.
1. Completion of ninety semester hours. Exception may be made for students who have completed seventy-five hours who wish to be placed in an off-campus student teaching center. Such a student should have achieved an academic average above the minimum stated herein, and possess a well-rounded background of professional preparation.
 2. Completion of Psych. 5, Educational, Ed. 125, Purposes and Practices of Education, or Ed. 130, Secondary Education, and Ed. 229, Curriculum and Teaching Practices.
 3. A cumulative point-hour ratio of 2.0 (C) must be attained in all education courses attempted. This includes Psych. 5, Ed. 125 or Ed. 130, and Ed. 229, a teaching methods course, and any other courses offered in the Department of Education.
 4. Completion of a major portion of the work in each of the teaching fields in which the student wishes to be certified. A cumulative point-hour ratio of 2.0 must be attained in each of these fields.

THE UNIVERSITY ELEMENTARY SCHOOL

The College of Education of Ohio University maintains the University Elementary School, consisting of a four-year and a five-year kindergarten, and grades one through six. The first function of this school is to furnish the best possible learning environment and instruction for children, since this is essential if good laboratory experiences are to be made available to college students who are training for elementary teaching. Teachers in the University Elementary School are members of the university staff with training in elementary education and supervision, and successful teaching experience.

CENTER FOR EDUCATIONAL SERVICE

The Center for Educational Service is a division of the College of Education and is designed to make available the resources of the College of Education and of the University to educational workers—teachers, administrators, and supervisors. These services are also available to boards of education and to the public in communities served by Ohio University.

For operational purposes, the Center is divided into the following sections: Administrative Services; Curriculum and Instructional Services; Economic Education; and Pupil Personnel Services.

The Center's chief functions are: (1) to provide consultant services in such areas as curriculum planning, use of community resources, economic education, guidance programs, school-community relations, reading, testing, and supervisory and administrative problems (such consultative services may involve one or several staff members and may be a single meeting or a series of conferences and meetings); (2) to conduct school surveys of educational programs and curricula, school building and site needs, and organization of school districts; (3) to assist in solution of professional problems through off-campus and on-campus workshops; (4) to promote conferences on vital problems confronting public education; (5) to publish those studies and reports which will aid in solving educational problems, and to distribute such publications; (6) to assist schools with the organization or revision of programs of reading (especially for exceptional children), guidance and testing; and (7) to encourage cooperative attack by teachers, administrators, boards of education, and the public toward solution of educational needs.

The Center's collection of materials from public school systems and universities in all parts of the United States forms a curriculum and administrative materials laboratory. These materials are available to students and staff members for on-campus courses and to workshop study groups for resource material. Selected items may be loaned to teachers and administrators for committee work in their own school systems.

GRADUATE WORK IN EDUCATION

Graduate work at Ohio University is under the direction of the Graduate College and its Graduate Council, and is described on page 160.

The College of Education offers many advanced graduate courses to help school workers raise the level of their competence in their professional work. The types of programs offered cover the following professional fields:

Elementary Education—teaching in elementary schools, supervision, and administration of elementary schools.

History and Philosophy of Education.

Research Work in Education.

Secondary Education—teaching in secondary schools, supervision, and administration of secondary schools.

School Administration and Supervision—the school superintendency, the school principalship, school supervision.

Guidance Services in the Schools—the school counselor, the director of guidance, school psychologist, visiting teacher, the guidance functions of teachers and administrators.

In each of these fields, and to a limited extent in some other fields, the College of Education is prepared to advise students and to help them plan graduate programs most appropriate for their professional goals. Upon consultation with the dean of the Graduate College, the prospective graduate student in Education will be directed to the Graduate Committee of the College of Education. He will be assigned a graduate adviser and will be given every opportunity to develop a rich and rewarding graduate experience.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate in the office of the Registrar at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the dean of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student makes application for certification this record will be examined and the question of his fitness for teaching will be given further consideration.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high-school academic or special subjects, ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. Students enrolled in other colleges of the University may meet certification requirements by completing the necessary professional subjects and completing requirements in the subjects which they plan to teach.

Students meet the minimum professional requirements for secondary certification to teach in Ohio by completing the following:

Subject	Sem. Hrs.
Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 287—Student Teaching Laboratory <i>or</i>	
a methods course	2-3
Ed. 281—Student Teaching in the Secondary Schools ..	7

Minimum standards for certification in the various secondary and special subjects have been established by the State Department of Education. Students wishing information about certification requirements should consult the Office of the Dean of the College of Education.

THE COLLEGE OF FINE ARTS

EARL C. SEIGFRED

DEAN

THE SCHOOL OF DRAMATIC ART AND SPEECH

CLAUDE E. KANTNER, DIRECTOR

Dramatic Art
Radio-Television
Public Address
Speech and Hearing Therapy

THE SCHOOL OF MUSIC

KARL AHRENDT, DIRECTOR

Applied Music
Music Education
Music History and Literature
Music Therapy
Theory and Composition

THE SCHOOL OF PAINTING AND ALLIED ARTS

FREDERICK D. LEACH, DIRECTOR

Architecture
Art Education
Art History
Design
Painting and Drawing
Photography
Sculpture and Ceramics

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts, offering a broad, cultural education in the fine arts and special training in the following departments: Dramatic Production, Radio-Television, Public Address, Speech and Hearing Therapy, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Music Therapy, Architecture, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree fulfills three functions: to provide the student with specialized training in one of the fine arts; to provide a cultural background through a study of the relationship of all of the arts; and to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made for educational and vocational counseling.

Candidates for the degree in the College of Fine Arts complete the general graduation requirements, which include a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on all hours in the field of specialization. For a student with transferred credit, this rule applies to his cumulative record, which includes transferred credits, and to his Ohio University record, exclusive of transferred credits. These requirements include the program of the University College.

Students working toward the Bachelor of Fine Arts degree must complete a major in one of the schools of the College of Fine Arts and a minor of 18 hours in general courses in the fine arts, including F.A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select two to complete the minor: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual Theatre, History of Oratory. Six hours of the minor must be in an area outside of the School in which the student is pursuing his major. Descriptions of the general courses may be found under "Fine Arts."

As an alternate to the eighteen-hour minor in history and appreciation, it is possible in certain areas to fulfill the minor requirement by completing F.A. 17-18 and twelve semester hours of applied work in one of the schools of the College of Fine Arts other than that in which a major is being pursued. Before undertaking an alternate minor it is necessary to obtain written permission from the dean of the college.

Those who are planning to teach in Ohio should fulfill the minimum requirements for certification by completing the following:

	Hours		Hours
Psych. 5—Educational Psychology	3	A methods course	2-3
Ed. 125—Purposes and Practices of Education	3	Student teaching	7
Ed. 229—Curriculum and Teaching Practices	4		

MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech provides a comprehensive major for those who wish a general background and also permits more specialized majors in theatre, public address, radio, and speech and hearing therapy for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors in any phase of dramatic art and speech should have a general background of certain basic courses. The program is flexible and is intended to meet the needs and abilities of the individual students.

The University College program should include Speech 1, Speech 2, and F.A. 17-18—Introduction to the Fine Arts. Other courses open to students in the University College are: Speech 3, 25, 34, Radio-TV 79, and Dramatic Art 10.

Majors in theatre must elect 12 hours of English beyond the University College requirement, including either Eng. 223, 224, 323 or 324 — Shakespeare, and at least three additional hours in dramatic literature. Comprehensive majors and majors in radio, speech and hearing therapy, or public address must elect six hours of English beyond the University College requirement or General Studies 7, 8—Great Books. Students who plan to teach speech and English in the public schools should consult with their advisors concerning additional requirements in English and Education.

SPEECH AND HEARING CLINIC. The School of Dramatic Art and Speech maintains a speech and hearing clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial treatment for cases of a functional nature is provided free of charge under the direction of a competent speech pathologist. A special speech clinic for children serves the Athens area and provides excellent training opportunities for students in speech correction.

Practical experience in radio and television is provided in the University radio station, WOUB -AM and WOUI -FM and in the closed circuit television laboratory. Students wishing to work in the theatre may take part in the productions of the University Theatre, the Playshop and the Ohio Valley Summer Theatre. Those interested in public address may participate in first-year debate, varsity debate, and inter-collegiate contests in oratory, extemporary speaking and interpretation. For a more complete description of these activities, see page 43. The School of Dramatic Art and Speech also sponsors the following professional societies: Tau Kappa Alpha (forensics), Chi Rho Beta (radio), Footlighters and National Collegiate Players (theatre), and the Speech and Hearing Therapy Club.

BASIC COURSES REQUIRED FOR ALL MAJORS

	Hours		
Speech 2—Voice and Articulation	2	Speech 195—Principles of Speech	
Speech 3—Public Speaking	2	Correction	3
Speech 25—Principles of Argumentation	2	Radio-TV 79—Introduction to	
Speech 34—Oral Interpretation of		Radio-TV	2
Literature	3	Dram. A. 10—Introduction to Theatre	2
Speech 104—Bases of Speech	3		

COMPREHENSIVE MAJOR IN DRAMATIC ART, RADIO, SPEECH AND SPEECH AND HEARING THERAPY

In addition to the basic courses listed above, the following must be completed:

	Hours		
Dram. A. 47 or 147—Theatre		Radio 225—Radio Play Production or	
Laboratory	1-2	Speech 303—Advanced Oral In-	
Dram. A. 99—Movement and		terpretation or	
Pantomime	2	Speech 309—Rhetorical Theory	3
Dram. A. 105—Play Production	3	Speech 307—Clinical Methods or	
Dram. A. 299—Principles of Acting	3	Speech 312—Phonetics	3
Speech 112—Advanced Public Speaking	2		
Speech 205—Dynamics of Group			
Discussion	3		

MAJOR IN PUBLIC ADDRESS*

In addition to the basic courses listed above, the following must be completed:

	Hours		
Speech 110—Parliamentary Procedure	1	Speech 305—Problem Solving Through	
Speech 112—Advanced Public Speaking	2	Group Discussion	3
Speech 147—Workshop in Speech	2	Speech 309—Classical Rhetorical	
Speech 205—Dynamics of Group		Theory	3
Discussion	3	Speech 325—Direction of Forensic	
Speech 303—Advanced Oral Interpreta-		Programs	3
tion or			
Dram. A. 105—Play Production	3		

MAJOR IN RADIO-TELEVISION**

In addition to the basic courses listed above, the following must be completed:

	Hours		
Radio-TV 105—Radio Broadcasting		Radio-TV 225, 226—Radio Play Pro-	
Mechanics	2	duction	6
Radio-TV 130—Radio Speech	3	Radio-TV 247—Advanced Radio	
Radio-TV 301—Principles of Television	3	Workshop	2
Radio-TV 316—Continuity Writing	2	Radio-TV 375—Program Planning and	
		Building	3

MAJOR IN SPEECH AND HEARING THERAPY

In addition to the basic courses listed above, the following must be completed:

	Hours		
Speech 307—Clinical Methods	3	Speech 319—Audiometry and Speech	
Speech 310—Speech Pathology	3	and Hearing Problems	3
Speech 312—Phonetics	3	Speech 320—Advanced Clinical Methods	3
		Speech 323—Lip Reading	3

Students who anticipate obtaining positions in speech and hearing therapy in the public schools of Ohio must also include in their elective subjects the following courses in speech and hearing therapy, psy-

* Majors in public address must also elect F.A. 203-204, History of Oratory, as one of the minor subjects.

** Students who do not have a reasonable proficiency in typewriting must elect, in addition, Sec. St. 15, Typewriting. Students are also advised to take additional elective courses in such areas as theatre, foreign languages, sports, philosophy, history, psychology, commerce, music.

chology and education. This program meets the requirements in the State of Ohio for the special certificate in this field. A student who wishes to prepare for a public school position in speech correction in any state other than Ohio should obtain the requirements of the state in question and, with his adviser, plan his program accordingly.

Hours	
Speech 345—Stuttering and Psychogenetic Disorders of Speech	3
Speech 335—Diagnostic Procedures in Speech and Hearing Therapy	3
Psych. 1 or 101—General Psychology	3
Psych. 5—Educational Psychology	3
Psych. 103—Child Psychology or Ed. 103, Studies of Children	3
Psych. 113—Psychology of Adolescence	2
Psych. 204—Psychology of Exceptional Children	2
Psych. 310—Mental Hygiene	3
Ed. 125—The Purposes and Practices of Education	3
Ed. 229—Curriculum and Teaching Practices	4
Speech 262—Speech and Hearing Therapy in Public Schools	2
Ed. 272—Practice Teaching in the Elementary Grades (Speech correction)	5

All students who major in speech and hearing therapy whether looking forward to certification or not, must complete a minimum of 22 hours in psychology and education including Speech 262, Ed. 272, 103, or Psych. 103, Psych. 204, 310 or 337, and Speech 335.

MAJOR IN THEATRE*

In addition to the basic courses listed above, the following must be completed:

Hours	
Dram. A. 21—Elements of Stage Scenery	3
Dram. A. 48—Make-up	1
Dram. A. 99-100—Movement and Pantomime	4
Dram. A. 207—Costuming	4
Dram. A. 123—Elements of Stage Lighting	3
Dram. A. 299—Principles of Acting	3
Dram. A. 350—Play Direction	3

MAJORS IN THE SCHOOL OF MUSIC. Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the standards set up by the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and glee clubs.

Six hours of English beyond the University College requirement or Gen. Studies 7, 8—Great Books are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 18 hours of general courses in the fine arts. (See page 222.)

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be either vocal or instrumental.

* Theatre majors must also elect F.A. 179-180—History of the Visual Theatre, as one of their minor subjects.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree. It should be understood that completion of credit hours in applied music should be in agreement with the proficiency requirements as set up by the School of Music. These requirements may be secured at the office of the School of Music.

Majors are required to attend all recitals and to participate in orchestra, chorus, or band, depending upon their applied major.

The following curricula have been set up for music majors in the College of Fine Arts.

MAJOR IN PIANO (Four-Year Curriculum)

Twenty-six semester hours in applied music including 18 hours in piano, and 8 hours in ensemble (chorus, orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 340, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124. (See page 222.)

Twenty-one to twenty-five hours of general requirements, including 12 hours of English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-five to twenty-seven semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Piano	2	Freshman Piano	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts 3	3	F. A. 18—Introduction to the Fine Arts 3	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program*

Sophomore Piano	2	Sophomore Piano	2
Mus. 103—Dictation and Sight Singing ..	2	Mus. 104—Dictation and Sight Singing ..	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	3	Electives	3
	17		17

*Physical education should be added as required.

Junior Program

Junior Piano -----	2	Junior Piano -----	2
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ensemble -----	1	Ensemble -----	1
Electives -----	7	Electives -----	7
	15		15

Senior Program

Senior Piano -----	3	Senior Piano -----	3
Mus. 340—The Literature of Piano Music -----	2	Advanced music theory elective -----	2
Advanced music theory elective -----	2	Ensemble -----	1
Ensemble -----	1	Electives -----	8
Electives -----	7		14
	15		

MAJOR IN VOICE**(Four-Year Curriculum)**

Thirty semester hours in applied music, including 18 hours in voice, 4 hours of piano, and 8 hours in ensemble (chorus).

Twenty-two semester hours in the theory and literature of music including Mus. 3-4, 103-104, 105-106, 201-202, and 337 or 339.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124. (See page 222.)

Thirty-nine to forty-three hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

*Physical education should be added as required.

Seven to nine semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Voice -----	2	Freshman Voice -----	2
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	16		17

Sophomore Program*

Sophomore Voice -----	2	Sophomore Voice -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 103—Dictation and Sight Singing 2		Mus. 104—Dictation and Sight Singing 2	
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fr. 1—Beginning French -----	4	Fr. 2—Beginning French -----	4
Ensemble -----	1	Ensemble -----	1
	16		16

*Physical education should be added as required.

Junior Program

Junior Voice -----	2	Junior Voice -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ger. 1—Beginning German -----	4	Ger. 2—Beginning German -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	2	Electives -----	2
	<hr/> 15		<hr/> 15

Senior Program

Senior Voice -----	3	Senior Voice -----	3
It. 1—Beginning Italian -----	4	Mus. 337—The Literature of Vocal Music or -----	
Fine arts minor -----	3	Mus. 339—The Evolution of the Opera -----	2
Ensemble -----	1	Fine arts minor -----	3
Electives -----	4	Ensemble -----	1
	<hr/> 15	Electives -----	5
			<hr/> 14

**MAJOR IN ORCHESTRAL INSTRUMENTS: STRINGS, WOODWINDS,
BRASS, OR PERCUSSION**

(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in major instrument, 4 hours in piano, and 8 hours of ensemble (orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 338, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124. (See page 222.)

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-one to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Major Instrument -----	2	Major Instrument -----	2
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	<hr/> 16		<hr/> 17

Sophomore Program*

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 103—Dictation and Sight Singing -----	2	Mus. 104—Dictation and Sight Singing -----	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Ensemble -----	1	Ensemble -----	1
	<hr/> 15		<hr/> 15

*Physical education should be added as required.

Junior Program

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ensemble -----	1	Ensemble -----	1
Electives -----	7	Electives -----	6
	<hr/> 16		<hr/> 15

Senior Program

Major Instrument -----	3	Major Instrument -----	3
Advanced music theory elective -----	2	Advanced music theory elective -----	2
Ensemble -----	1	Mus. 338—The Literature of -----	2
Electives -----	9	Orchestral Music -----	2
	<hr/> 15	Ensemble -----	1
		Electives -----	7
			<hr/> 15

MAJOR IN MUSIC EDUCATION

(Four-Year Curriculum)

Sixteen semester hours in applied music, including completion of voice and piano requirements for vocal majors and required proficiency for the major instrument for instrumental majors. Instrumental majors must also complete at least three hours in a minor instrument (if major instrument is wind, 3 hours must be in string, and vice versa). Instrumental majors must further complete piano proficiency and two hours of voice.

Twenty semester hours of theory, including Mus. 3-4, 103-104, 105-106, 201 and 233.

Eighteen semester hours, to constitute the minor, in courses in the fine arts, including F.A. 17-18, and F.A. 123-124. (See page 222.)

Eighteen semester hours of music education to include Mus. 261, 263, 265, 267, 268 and 273.

Twenty-three semester hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and 6 hours in social sciences and other courses to fulfill the University College requirements.

Twenty hours in education for completion of certification requirements to include Psych. 1 and 5, Ed. 130, 228, 272, 280, and 281.

Eight semester hours for ensemble participation (band, chorus, glee clubs, or orchestra).

Total requirements: 124-135 semester hours.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition -----	3	Eng. 4—English Composition -----	3
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
Psych. 1—General Psychology -----	3	Speech 1—Fundamentals of Speech -----	1
P. E.—Physical education -----	1	P. E.—Physical education -----	1
Applied -----	2	Applied -----	2
Participation -----	1	Participation -----	1
	<hr/> 16	Social science -----	3
			<hr/> 17

*Physical education should be added as required.

Sophomore Program*

Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Eng. 102—Sophomore English Literature	3	Ed. 130—Secondary Education	3
P. E.—Physical education	1	P. E.—Physical education	1
Psych. 5—Educational Psychology	3	Applied	2
Applied	2	Participation	1
Participation	1	Elective	4
Elective	3		16
	18		

Junior Program

Mus. 261—String Techniques and Materials	2	Mus. 263—Wind and Percussion Techniques and Materials	2
Mus. 263—Wind and Percussion Techniques and Materials	2	Mus. 265—Vocal Techniques and Materials	2
Mus. 273—Conducting	2	Ed. 280—Observation and Participation in High School	3
Teaching minor	3	Ed. 228—Principles of Teaching	3
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Eng. 111 or 112—Chief American Writers	3	Applied	2
Applied	2	Participation	1
Participation	1		16
	18		

Senior Program

Ed. 272—Student Teaching in the Elementary Grades	2	Ed. 281—Student Teaching in the Secondary Schools	2
Mus. 233—Instrumentation	3	Mus. 268—Music in Junior and Senior High Schools	3
Mus. 201—Analysis and Form	2	Applied	2
Mus. 267—Supervision of Music in Elementary Schools	3	Participation	1
Applied	2	Fine Arts minor	3
Participation	1	Elective	3
Fine Arts minor	3		14
	16		

MAJOR IN MUSIC THEORY OR COMPOSITION

(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in the principal instrument, Mus. 261, 263, and 8 hours in ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 313-314, 315-316, 317-318, 319-320, 357-358, and 371-372. (Mus. 371-372 is required only of majors in composition.)

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124. (See page 222.)

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Seventeen to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

*Physical education should be added as required.

Freshman Program*

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Principal instrument -----	1	Principal instrument -----	1
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	<hr/> 15		<hr/> 16

Sophomore Program*

Principal instrument -----	1	Principal instrument -----	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
Mus. 261—String Techniques		English elective -----	3
and Materials -----	2	Fine arts minor -----	3
English elective -----	3	Ensemble -----	2
Fine arts minor -----	3	Electives -----	2
Ensemble -----	1		<hr/> 15
	<hr/> 15		

Junior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 263—Wind and Percussion		Mus. 202—Analysis and Form -----	2
Techniques and Materials -----	2	Mus. 316—Advanced Harmony -----	2
Mus. 201—Analysis and Form -----	2	Mus. 318—Counterpoint -----	2
Mus. 315—Advanced Harmony -----	2	Mus. 320—Composition -----	2
Mus. 317—Counterpoint -----	2	F. A. 124—History of Music -----	3
Mus. 319—Composition -----	2	Ensemble -----	1
F. A. 123—History of Music -----	3	Electives -----	3
Ensemble -----	1		<hr/> 16
Electives -----	1		
	<hr/> 16		

Senior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 313—Orchestration -----	2	Mus. 314—Orchestration -----	2
Mus. 357—Counterpoint -----	2	Mus. 358—Counterpoint -----	2
Mus. 371—Composition** -----	2	Mus. 372—Composition** -----	2
Ensemble -----	1	Ensemble -----	1
Electives -----	8-10	Electives -----	7-9
	<hr/> 16-18		<hr/> 15-17

MAJOR IN MUSIC LITERATURE

(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in principal instrument, and 8 hours ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 6 hours chosen from Mus. 337, 338, 339, and 340.

Eighteen semester hours to constitute the minor in general courses in the fine arts, including F.A. 17-18 and 123-124. (See page 222.)

*Physical education should be added as required.

**Required of majors in composition only.

Forty-three to forty-seven hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Thirteen to fifteen hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program*

The University College Program should include:

First Semester		Hours	Second Semester		Hours
Principal instrument	-----	1	Principal instrument	-----	1
Mus. 3—Theory	-----	3	Mus. 4—Theory	-----	3
F. A. 17—Introduction to the Fine Arts	-----	3	F. A. 18—Introduction to the Fine Arts	-----	3
Ensemble	-----	1	Ensemble	-----	1
University College requirements	-----	7	University College requirements	-----	8
		<u>15</u>			<u>16</u>

Sophomore Program*

Principal instrument	-----	1	Principal instrument	-----	1
Mus. 103—Dictation and Sight Singing	-----	2	Mus. 104—Dictation and Sight Singing	-----	2
Mus. 105—Harmony	-----	3	Mus. 106—Harmony	-----	3
English elective	-----	3	English elective	-----	3
Fine arts minor	-----	3	Fine arts minor	-----	3
Hist. 1—Western Civilization	-----	8	Hist. 2—Western Civilization	-----	3
in Modern Times	-----	1	in Modern Times	-----	3
Ensemble	-----	1	Ensemble	-----	1
		<u>16</u>			<u>16</u>

Junior Program

Principal instrument	-----	1	Principal instrument	-----	1
Mus. 201—Analysis and Form	-----	2	Mus. 202—Analysis and Form	-----	2
F. A. 123—History of Music	-----	3	F. A. 124—History of Music	-----	3
Fr. 1—Beginning French	-----	4	Fr. 2—Beginning French	-----	4
Ensemble	-----	1	Ensemble	-----	1
Electives	-----	5	Electives	-----	5
		<u>16</u>			<u>16</u>

Senior Program

Principal instrument	-----	1	Principal instrument	-----	1
Music literature elective	-----	4	Music literature elective	-----	2
Ger. 1—Beginning German	-----	4	Ger. 2—Beginning German	-----	4
Ensemble	-----	1	Ensemble	-----	1
Electives	-----	5	Electives	-----	6
		<u>15</u>			<u>14</u>

MAJORS IN THE SCHOOL OF PAINTING AND ALLIED ARTS. *Basic Program.*

The following program is intended to serve as a foundation for specialization in the Junior and Senior years. It is planned in a way to give the student a thorough preparation in drawing and design and an introduction to the various media through which this knowledge may find expression in aesthetic form. At the end of the sophomore year, each student will have become familiar with the basic problems in drawing, design, sculpture, commercial art, and painting, and will have completed a survey of the history of the fine arts. At this time he will, together with his adviser, determine for himself the course of study he will follow for the remaining two years. Thus the freshman and sopho-

*Physical education should be added as required.

more years constitute an extensive program and the junior and senior years a more intensive plan. This division of the undergraduate degree program is based on the belief that the students, having been well grounded during the first two years of their college careers, are sufficiently mature to help direct the course through their own areas of specialization.

The Bachelor of Fine Arts degree in the School of Painting and Allied Arts requires a minimum of 32 semester hours of work in the School, including four semesters of Drawing and Design (Art 1, 2, 101, 102) and one semester each of Elementary Sculpture (Art 21) and Figure Drawing (Art 28). Architectural majors are a partial exception to this stipulation because of the demands of their schedules. The minor requirement for the B.F.A. degree is met with 18 semester hours of general courses in the fine arts.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8, Great Books, are to be completed by candidates for the B.F.A. degree.

Those students desiring mastery of the field of Painting, Sculpture, Printmaking, or Ceramics, will find little difficulty in planning a program in accordance with their personal objectives as they relate to the demands of the field involved.

Possible fields of specialization, beyond the sophomore year, would include the general field of design or concentration in Advertising Design, Fashion Design, Industrial Design, or Interior Design. Programs leading to the realization of competence in these areas can be arranged to suit the demands of the individual student in conference with his adviser.

In every case, entrance upon a plan of study beyond the sophomore level involves a decision on the part of the student regarding his future role in the field of art. For this reason, each student is advised to make the most of the basic program outlined below in order that it may provide a means by which he will be better prepared to enter his chosen field.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
Art 21*—Elementary Sculpture	2	Art 28*—Figure Drawing	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
U. C. requirements	8	U. C. requirements	8
	<hr/> 16		<hr/> 16

Sophomore Program

Art 101—Drawing and Design	3	Art 102—Drawing and Design	3
F. A. 121—History of Painting & Sculpture	3	F. A. 122—History of Painting & Sculpture	3
Art 128—Advanced Figure Drawing	3	Art 111—Drawing Workshop	2
Art 113—Lettering	3	Art 118—Watercolor	3
Electives	6	Electives	5
	<hr/> 17		<hr/> 17

*May be taken either semester.

MAJOR IN ARCHITECTURE

Candidates for the Bachelor of Fine Arts degree may elect architecture as a major within the School of Painting and Allied Arts. A curriculum has been designed to provide an over-all knowledge of the subject supported by a study of the liberal arts and related fine arts. Students upon completing the architectural curriculum, should be prepared for positions as architectural draftsmen and assistants in architects' offices, where they may gain practical experience usually required by state boards. Certain students with outstanding skill should plan, upon receiving the B.F.A. degree, to pursue graduate study at one of the accredited schools of architecture.

For the student who chooses, upon graduation, to enter fields closely allied to architecture and building, opportunities exist in the design, manufacture, distribution, and installation of the materials of architecture. A developed, imaginative power and a structural sense are desirable attributes for work in industrial design and in the design and construction of display features and structures.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Math. 5—Freshman Mathematics	5	Math. 6—Analytic Geometry and Calculus I	5
U. C. requirements	6	U. C. requirements	6
	17		17

Sophomore Program

Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
Arch. 55—Fundamentals of Architecture	3	Arch. 56—Architectural Graphics	3
Arch. 179—Architectural Materials	3	Arch. 183—Architectural Equipment	3
Fine Arts minor	3	Fine Arts minor	3
Arch. 105—Architectural Rendering	2	Electives	5
Electives	2		18
	17		

Junior Program

F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Arch. 257—Fundamentals of Residential Architecture	2	Arch. 258—Design of Residential Architecture (optional)	3
Arch. 281—Architectural Construction	2	Arch. 282—Architectural Construction	2
Arch. 155—Architectural Design	5	Arch. 156—Architectural Design	5
Electives	4	Electives	3
	16		16

Senior Program

Arch. 284—Working Drawings	2	Arch. 286—Senior Design	5
Arch. 285—Senior Design	5	Arch. 301—Problems in Architecture (optional)	3
Fine Arts minor	3	Fine Arts minor	3
Electives	8	Electives	7
	18		18

MAJOR IN ART EDUCATION

The program below is designed for those who wish certification as teachers in the public schools while completing requirements for the Bachelor of Fine Arts degree. All required courses are specified and should be taken as listed. Substitutions may be made only after consultation with an adviser.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
Art 28*—Figure Drawing	2	Art 21*—Elementary Sculpture	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Psych. 1—General Psychology	3	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Physical Education	1
Physical Education	1	Electives	4
	<hr/> 15		<hr/> 16

Sophomore Program

Psych. 5—Educational Psychology	3	Ed. 130—Secondary Education	3
Art 101—Drawing and Design	3	Art 102—Drawing and Design	3
Art 103—Representation	3	Art 123—Jewelry	2
Art 113—Lettering	3	Art 137—Fashion Design	2
F. A. 121—History of Painting & Sculpture	3	F. A. 122—History of Painting & Sculpture	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
	<hr/> 18		<hr/> 16

Junior Program

Art 115—Ceramics	3	Art 118—Watercolor	3
Art 111—Drawing Workshop	2	Art 128—Advanced Figure Drawing	3
Art 240—Design Applied to Materials	2	Ed. 228—Principles of Teaching	3
Art 271—Interior Design	3	Art 120—Textile Design	3
F. A. Minor	3	F. A. Minor	3
Electives	3	Electives	3
	<hr/> 16		<hr/> 18

Senior Program**

Ed. 272—Student Teaching in the Elementary School	3	Art 260—Teaching of Art	3
Ed. 281—Student Teaching in the Secondary School	4	Art 341—Painting (Advanced)	2
Art 205—Painting	2	Art 309—Prints	3
Electives	6	Electives	7
	<hr/> 16		<hr/> 15

MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

In addition to a specialized understanding of photographic techniques and practices, a general education in contributing fields is desirable. The successful photographer must appreciate the ideas and interests of those with whom he deals.

*May be taken either semester.

**Each 15 hour block may be taken either semester.

A planned course of study should include courses in art history, design and drawing for technical information contributing directly to the major interest. From the general educational field, courses in journalism, commerce, and the sciences should be chosen to fit individual needs.

Prospective photography majors should contact a staff member before registration and follow the program below as closely as possible.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design -----	3	Art 2—Drawing and Design -----	3
Photog. 77—Basic -----	3	Photog. 78—Basic -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
U. C. requirements -----	7	U. C. requirements -----	7
	<hr/> 16		<hr/> 16

Sophomore Program

Photo. 145—Workshop in Photography -	3	Photo. 145—Workshop in Photography -	3
Photo. 143—Photographic Processes ---	3	Photo. 144—Photographic Processes ---	3
F. A. 121—History of Painting & Sculpture -----	3	F. A. 122—History of Painting & Sculpture -----	3
Art 101—Drawing and Design -----	3	Art 102—Drawing and Design -----	3
Electives -----	5	Electives -----	5
	<hr/> 17		<hr/> 17

Junior Program

Photog. 277—Portraiture -----	3	Photog. 278—Portraiture -----	3
Fine arts minor -----	3	Photog. 381—Problems in Photography -	3
Electives -----	10	Fine Arts minor -----	3
	<hr/> 16	Electives -----	7
			<hr/> 16

Senior Program

Photog. 379—Commercial and Illustrative Photography -----	3	Photog. 380—Commercial and Illustrative Photography -----	3
Photog. 381—Problems in Photography -	3	Photog. 381—Problems in Photography -	3
Electives -----	7	Electives -----	7
	<hr/> 13		<hr/> 13

THE GRADUATE COLLEGE

DONALD R. CLIPPINGER

DEAN

Art

Bacteriology

Botany

Chemistry

Classical Languages
(minor work only)

Commerce and Business

Dramatic Art

Economics

Education and School
Administration

Engineering, Electrical and
Mechanical

English

Geography
(minor work only)

Geology

German

Government

History

Home Economics

Human Relations

Industrial Arts

Journalism

Management

Mathematics

Music

Philosophy

Photography

Physical Education
and Athletics

Physics

Public Address

Psychology

Radio-Television

Romance Languages

Sociology

Speech and
Hearing Therapy

Zoology

THE GRADUATE COLLEGE

The graduate program at Ohio University provides advanced professional training in the area of a student's field of specialization and affords opportunities for the conduct of research and special investigations in these same areas. The program of graduate study should become an initiation into methods of intensive study and research in some selected area of knowledge. It is the objective of the Graduate College to provide its students with a high degree of professional competence.

The Graduate College confers the degree of Master of Arts, Master of Education, Master of Science, Master of Fine Arts, or Master of Business Administration.

The degree of Doctor of Philosophy is granted in certain selected areas of study in the University. At present these are Chemistry, Public Address, and Speech and Hearing Therapy. Detailed information on these programs may be found in the Graduate College bulletin.

ADMISSION. Students holding a bachelor's degree from an accredited college or university who have attained an undergraduate scholastic point-hour ratio of 2.5 or better on hours attempted, and preferably a 3.0 (B) in the area of the proposed major, may be admitted and granted *regular status* in the Graduate College. Further supporting evidence of the student's ability in the form of the Graduate Record Examination or other college ability tests and letters of recommendation may be requested.

Students holding a bachelor's degree from unaccredited institutions or persons whose undergraduate preparation is deficient will be required to supplement their undergraduate record with a satisfactory score on an acceptable standard college ability test.*

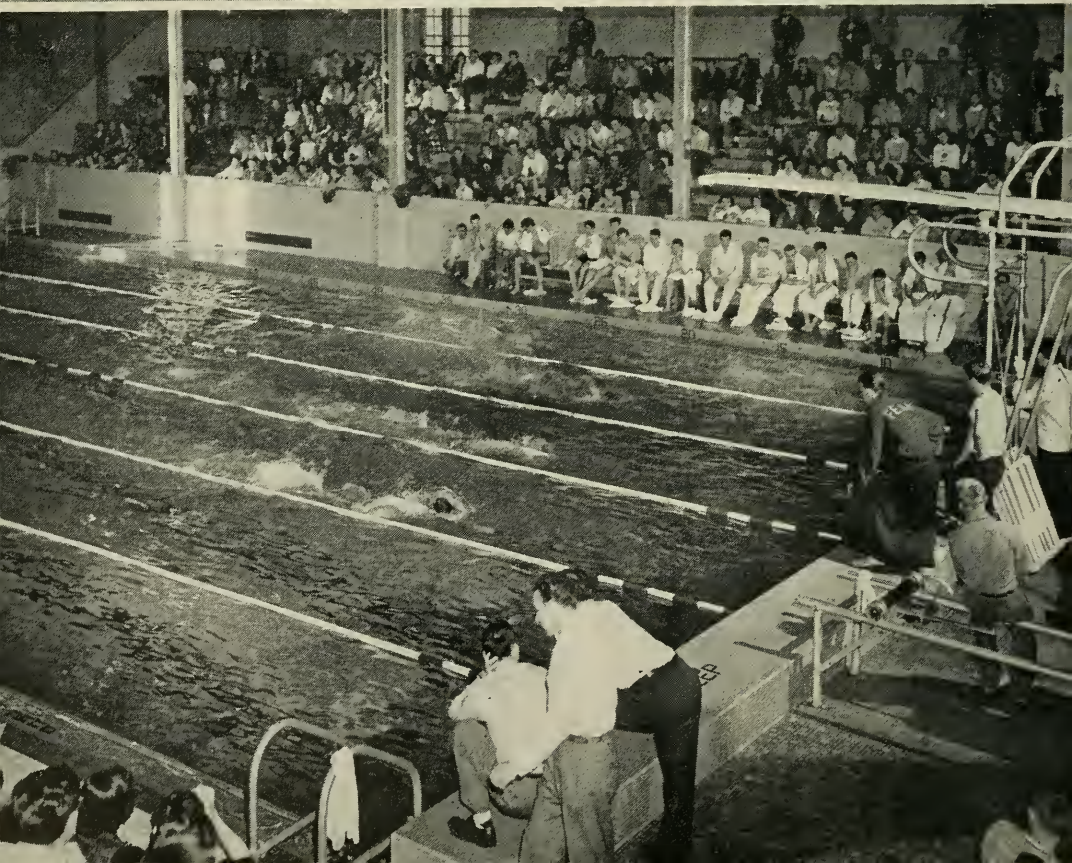
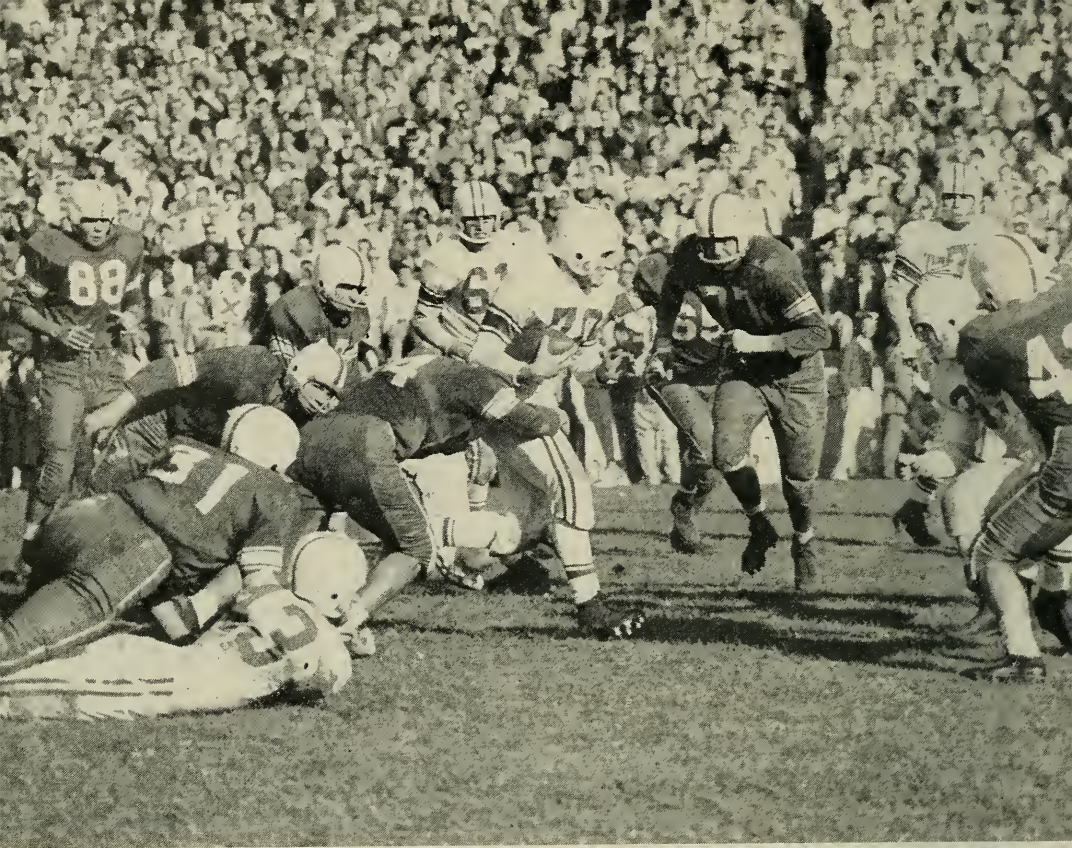
Students with a master's degree will be admitted to graduate study for the doctorate with the amount of graduate credit accepted, by transfer, subject to review and recommendation by the graduate committee of the department concerned.

All correspondence pertaining to the admission of a student to the Graduate College should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Students are accepted for admission in advance of the beginning of each of the semesters of the regular year and at the beginning of each term of the summer session.

*Information regarding these examinations may be had at the office of the Director of Admissions or the office of the Supervisor of Testing Service. While it is not required except as indicated above, applicants for admission may submit their scores on the Graduate Record Examination as valuable evidence of fitness for admission. The Graduate Record Examination is a test of general intellectual ability. Those who have taken this test are urged to have the Graduate Record Office report their scores to the Director of Admissions, Ohio University. Examinations will be given in January, April, July, and November. Further information about the Graduate Record Examination may be obtained by writing to the Educational Testing Service, P. O. Box 592, Princeton, New Jersey. Applicants in the West Coast region should write to the Educational Testing Service, P. O. Box 27896, Los Angeles 27, California.





Application for admission consists of the presentation of an application blank filled in by the applicant, an official transcript of college credit, two small photographs of the applicant, a vaccination blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. The vaccination and medical history blanks are not required if a student plans to attend the summer session *only* as a special student.

A graduate student who is attending another university may be admitted for the summer session as a special transient student by presenting an official statement of good standing from the university in which he is enrolled. Admission for the summer session only as a special student does not constitute admission to the regular academic year.

Admission to the Graduate College does not imply admission to candidacy for a degree.

For information concerning application for living quarters, write the Director of Housing, Ohio University, Athens, Ohio.

CLASSIFICATIONS OF STUDENTS ADMITTED TO GRADUATE STUDY:

1. Those students approved by the major department and the Dean of the Graduate College for unqualified admission to graduate study are granted *regular status*.
2. Students admitted under the provisions of *special status* may include those who wish to pursue course work with no intention of qualifying for a degree, those who are transient registrants, those who fail to qualify for admission to candidacy, and those with some deficiency in entrance requirements. Students in this last category may achieve regular status after the satisfactory completion of a prescribed program of study to remove deficiencies.

SENIORS AND GRADUATE STUDY. A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take courses applying toward the master's degree, provided he otherwise meets the requirements of admission and secures the written recommendation from the dean of his college, the chairman of his major department, and approval of the Dean of the Graduate College. Request for the above privilege must be made in advance of registration through the Graduate College office.

REGISTRATION AND ASSIGNMENT TO ADVISERS. A student who qualifies for admission to the Graduate College receives a permit to register. He then confers with the Dean of the Graduate College concerning the general nature of his interests in graduate study and is directed to the departmental chairman or chairman of the graduate committee who has supervision over the subject matter in the area of major interest. The chairman, together with the Dean of the Graduate College, will assign a faculty adviser in the major and minor fields to counsel with the graduate student and prepare the outline of graduate study. The outline is returned to the Graduate College office where it is filed and becomes a part of the record of the graduate student.

PROGRAM OF STUDY AND STUDENT LOAD. A student's program of study is made up of two parts, a major and a minor, unless a program otherwise arranged is approved by the adviser and the graduate committee of the department. Since graduate work implies advanced study and some degree of specialization, a prescribed amount of undergraduate preparation in a subject or field of study is presupposed before graduate study may be undertaken in that subject or field. Naturally, the undergraduate preparation required to begin a graduate major is greater than that required to begin a graduate minor. In most departments a minimum of 18 semester hours of undergraduate work is required to begin a graduate major while 6 to 12 semester hours is required for the minor.

A master's program of graduate study without the thesis requirement is now available to graduates preparing for educational work in the public schools. Students desiring the Master of Education degree may have a program of study arranged with or without thesis, provided the program is approved by the committee on graduate study in the major department.

The full-time load for a graduate student is 16 credit hours per semester (12 hours in the summer session of ten weeks). A student wishing to register for extra hours must secure approval of his major adviser and the Dean of the Graduate College.

STANDARDS OF WORK. All work submitted for graduate credit shall be of high quality. *The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted in fields chosen to meet degree requirements, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.* A minimum average of B is required in all courses taken at Ohio University for application on the degree requirements.

RESIDENCE AND CREDIT. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of graduate credit with A or B grades may be accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser and is *not more than five years old*. Credit for courses taken by correspondence is not accepted toward the degree. *A maximum of six semester hours taken off campus is accepted toward the master's degree, provided the courses are conducted by instructors who regularly teach them on the campus.* A minimum of six semesters of study and research beyond the bachelor's degree is needed to meet the requirements of the doctor's degree. At least two semesters of the doctoral program of study shall be in continuous residence at Ohio University, preferably the last semesters of study for the degree. The continuous residence requirement applies to the period of graduate study following the completion of the master's degree or the equivalent of 32 semester hours.

The amount of credit accepted by transfer from another university will be determined by the graduate committee of the department concerned and the Dean of the Graduate College.

REQUIREMENTS FOR THE DEGREES. Detailed information on specific requirements involving admission to candidacy, comprehensive examinations, preparation of the thesis or dissertation, time limit for meeting requirements, and other details of the graduate programs are described in the Bulletin and other publications of the Graduate College. For more explicit information address the Dean of the Graduate College.

GRADUATE ASSISTANTSHIPS; TEACHING AND RESEARCH FELLOWSHIPS. A number of graduate assistantships and research fellowships are available in the Graduate College of Ohio University. Persons receiving these appointments are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

Graduate assistantships provide a stipend of \$1600 to \$1800 for the academic year of two semesters and waiver of all fees (resident and non-resident) with the exception of a \$25 incidental fee. The graduate assistant is required to give approximately 18 hours of service weekly to the University, and is permitted to carry 9 to 12 hours of graduate work, the hours in excess of 9 being subject to the approval of the Dean of the Graduate College and the chairman of the department in which the student is serving as an assistant.

The general registration fee and laboratory fees will also be waived during the summer sessions directly preceding and following the period of a graduate assistant's appointment.

A graduate assistant continuing study for a second year is eligible for a second appointment to the assistantship. The assistant who has completed two semesters of service with an exceptionally good record may, on the recommendation of his department, be reappointed for a second year at an increased stipend with waiver of the fees as noted above. Reapplication must be made annually.

Graduate assistantships are usually available to qualified students in the following fields: accounting, bacteriology, botany, business education, chemistry, dramatic art and speech, economics, education, electrical engineering, English, finance, fine arts, French, government, history, home economics (including nursery school), human relations, industrial arts, journalism, management, mathematics, music, philosophy, photography, physical education, physics, psychology, sociology, Spanish, and zoology.

Teaching fellowships are granted to selected students in advanced graduate study and provide a stipend of \$1800 to \$2200 with the usual waiver of fees.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to these fellowships must show exceptional aptitude for research. Their obligation involves the promotion of the research program of the department through which the grant is made. Fellows have no instructional service to perform and may normally carry 9 to 12 semester hours of work toward their graduate program. In general, the stipend and waiver of fees will be the same as that of an assistantship.

APPOINTMENTS IN PERSONNEL WORK. Positions are open annually for graduate assistants who will be appointed to assist the Personnel Deans. These assistants may pursue graduate work in human relations, psychology, and related fields. Stipend and other terms are the same as those of other graduate assistants.

Graduate appointments are also available to married men, with no children, as Heads of Residence in the dormitories for men. The compensation for this service is a furnished apartment and board for the man and wife, a stipend of \$700 per year plus the waiver of fees as indicated for the graduate assistant. The Head of Residence will supervise the functions of the dormitory and coordinate the responsibilities of graduate assistants assigned to work with him. He is limited to nine hours of course work per semester.

Applications for all graduate appointments must be filed with the Dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Graduate College.

SCHOLARSHIPS. University scholarships are available to college graduates who have maintained a high scholastic record. These permit full-time study and pay the basic registration (resident or non-resident) fee. Information may be obtained by addressing the Director of Student Financial Aids, Ohio University, Athens, Ohio.

THE DIVISIONS

THE BRANCHES

ALBERT C. GUBITZ, DEAN

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

CARROLL C. WIDDOES, DIRECTOR

W. J. TRAUTWEIN, ASSOCIATE DIRECTOR

CARL T. NESSLEY, ASSISTANT DIRECTOR

THE RESERVE OFFICERS' TRAINING CORPS

JAMES R. PATRICK, COORDINATOR

BURTON S. ANDREWS, P.M.S.T.

CALEB POWERS MOBERLY, P.A.S.

THE UNIVERSITY EXTENSION DIVISION

GILFORD W. CROWELL, ACTING DIRECTOR

THE SUMMER SESSION

GILFORD W. CROWELL, ACTING DIRECTOR

THE BRANCHES

Branches of Ohio University are located in Chillicothe, Ironton, Lancaster, Martins Ferry, Portsmouth, and Zanesville. Work at the freshman and sophomore levels is offered. Branches were originally established in 1946 in Chillicothe, Portsmouth, and Zanesville to accommodate the large number of World War II veterans desiring to enter college. They continued to develop and are now a permanent and significant part of the total University program. The branches in Lancaster and Ironton were established in 1956. The Martins Ferry Branch opened in 1957.

All qualified high school graduates and adults are eligible to take work in the branches and may earn up to two years of credit in the fields of commerce, arts and sciences, and education. One year of credit may be earned in engineering and fine arts. A limited amount of graduate work is also offered. A two-year technical institute curriculum at the Zanesville Branch allows interested high school graduates and adults an opportunity to train as engineering technicians. Work given in the branches is like that given on the main campus, with students receiving full residence credit. Many students after the second year transfer to the main campus or to other colleges and universities to complete the baccalaureate degree.

The Cadet Teacher program is featured in each branch and makes possible the completion of all requirements for the Cadet Teaching certificate. Twenty scholarships, ten freshmen and ten sophomore, are awarded annually in each branch to students in the Cadet Teaching program. Locally sponsored scholarships are also available.

Thousands of students have received training through the branch program, which allows them to pursue a college education while living at home and working full time or part time.

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have to some degree recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports or intercollegiate athletics. Ohio University has kept abreast of this educational movement. It is now developing extensive plans for an expansion of facilities and programs to meet the increasing demands of the future.

One problem which is particularly significant for technically trained and professional people arises out of a developing conflict between the forces of a commercial and industrial civilization and the biological needs of growing, developing, human organisms. Modern man faces the

necessity of preserving the achievements of his evolution. Urbanization and mechanical progress have taken away from large segments of our population natural forms of activity which developed organic structure, muscular tonus and coordination. Formerly one's developmental activities, if he were to survive, were inherent in the driving necessities of his daily life. Rapid changes in our culture and patterns of living have necessitated substitutions of sports, hobbies, recreational skills, and methods of adaptation to a more sedentary life with larger portions of leisure time. This was not an acute problem even two generations ago. It is important in these times, and it will become increasingly imperative in the future that educational programs be directed to this problem in our society.

Participation in selected physical activities which are harmonious with one's ability and desires contributes something to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

1. *Close coordination with the program of health services directed by physicians and nurses at the University Health Center.*
2. *Required physical education courses for men and women.*

(a) The physical education program for men includes dual, individual and team sports, aquatics, combatives, gymnastics, and rhythmic.

Two semesters of physical education are required. Near the close of each semester physical proficiency and sports tests may be taken and, meeting prescribed standards, this requirement could be reduced. For a detailed description of this plan refer to page 70.

(b) The two-semester required physical education program for women is on a basis of choice selected from four areas: sports and games, swimming, rhythmic, and outing activities. For additional information refer to page 70.

3. *Adapted Activities.*

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

4. *Intercollegiate Athletics.*

Ohio University is a charter member of the Mid-American Conference which is composed of seven prominent universities in the Midwest area. The other members are Miami, Toledo, Western Michigan, Kent, Bowling Green, and Marshall.

In the administration, financing, organization and management of the intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the amateur code and policies of the National Collegiate Athletic Association. All students are encouraged and welcomed to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained to play hard and clean athletics. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the attention of a team physician. He has at his disposal the personnel and facilities of a modern university hospital, and is aided by a qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, soccer, tennis, swimming, and riflery.

5. *Intramural sports and recreational activities.*

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of all available facilities in their leisure time. This provides a way for all students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

6. *Major and minor curricula.*

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students who wish to major in the Division of Physical Education and Athletics will apply for the degree, Bachelor of Science in Education.

A major in physical education and athletics prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities. The University has been successful in assisting well-qualified graduates to find placement.

All students majoring in physical education and athletics are required to purchase a uniform as prescribed by the Division.

The Division encourages major students to assist with the instruction in men's and women's physical activity classes. This experience is advantageous to a prospective teacher.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for teaching physical education and coaching athletic teams in the secondary schools of Ohio.

A minor in health education will qualify the student to assume health education responsibilities in the elementary and secondary schools.

A minor in recreation will prepare the student for leadership in school, industrial and community recreation, summer playground programs and outing or camping activities.

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curricula below. See pages 69, 70 and 76.

The following courses constitute a teaching major in physical education and athletics:

MEN

Freshman Program

First Semester	Hours	Second Semester	Hours
Zool. 3—Principles of Zoology	3	P. E. 66—Program Skills	2
P. E. 65—Program Skills	2		

Sophomore Program

P. E. 102—Personal and Community Health	3	Ed. 103—Studies of Children	3
P. E. 121—Program Skills	2	P. E. 122—Program Skills	1
P. E. 127—First Aid	2	Zool. 134—Anatomy, Kinesiology and Physiology	4
Zool. 133—Anatomy, Kinesiology and Physiology	4	P. E. 150—Recreation	3

Junior Program

P. E. 233—Theory of Adapted Activities	2	P. E. 135—Program Techniques	1
P. E. 267—Athletic Coaching	2-4	P. E. 268—Athletic Coaching	2-4
Psych. 310—Mental Hygiene or		P. E. 269—Teaching of Health	3
P. E. 395—School Health Problems	3		

Senior Program

P. E. 304—History and Principles	3	P. E. 306—Organization and Administration	2
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WOMEN

Freshman Program

First Semester	Hours	Second Semester	Hours
P. E. 1—Hockey, Soccer (1) and		P. E. 4—Intermediate Swimming (1) and	
P. E. 7—Beginning Modern Dance	1	P. E. 8—Intermediate Modern Dance	1
Zool. 3—Principles of Zoology	3		

Sophomore Program

P. E. 6—Elementary Tap Dancing	1	P. E. 122—Program Skills	1
P. E. 121—Program Skills	2	Zool. 134—Anatomy, Kinesiology and Physiology	4
P. E. 127—First Aid	2	P. E. 102—Personal and Community Health	3
P. E. 150—Recreation	3		
Zool. 133—Anatomy, Kinesiology and Physiology	4		

Junior Program

P. E. 131—Mass Games	1	P. E. 233—Theory of Adapted Activities	2
P. E. 272—Coaching Methods	2	H. E. 161—Home Nursing and Family Health (2) or	
P. E. 17—Beginning Tennis	1	Psych. 310—Mental Hygiene (3) or	
P. E. 269—Teaching of Health	3	P. E. 395—School Health Problems (3) 2-3	
P. E. 273—Coaching Methods	2	P. E. 275—Teaching of Ballroom and Modern Dance	1
Ed. 103—Studies of Children	3		
P. E. 274—Teaching of Folk Dancing	1		

Senior Program

P. E. 304—History and Principles of Physical Education and Athletics	3	P. E. 306—Organization and Administration of Physical Education and Athletics	2
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The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in health education and physical education: Hours

1. Principles and Organization 5

MEN AND WOMEN

P.E. 304—History and Principles of Physical Education and Athletics (3).

P.E. 306—Organization and Administration of Physical Education and Athletics (2).

2. Theory and Practice 4

MEN

P. E. 65—Program Skills (2)
P. E. 66—Program Skills (2)
P. E. 121—Program Skills (2)
P. E. 122—Program Skills (1)

WOMEN

P. E. 6—Elementary Tap Dancing (1)
P. E. 7—Beginning Modern Dance (1)
P. E. 8—Intermediate Modern Dance (1)
P. E. 15—Folk and National Dancing (1)
P. E. 121, 122—Program Skills (2-4)
P. E. 131—Mass Games (1)

3. Theory and Coaching 4

MEN

P. E. 139—Athletic Officiating (2)
P. E. 267—Athletic Coaching (2-4)
P. E. 181—Intramural Sports (2)
P. E. 268—Athletic Coaching (2-4)

WOMEN

P. E. 272—Coaching Methods (2)
P. E. 273—Coaching Methods (2)
P. E. 139 or 140 Athletic Officiating (2)

4. Health Education 7-8

MEN AND WOMEN

P.E. 102—Personal and Community Health (3)

P.E. 269—Teaching of Health (3)

Select from following (2-3):

P.E. 127—First Aid (2)
P.E. 128—Physical Therapy (2)
P.E. 142—Camp Leadership (2)
Ind. A. 5—Driver Education (1)

5. Biological Life Sciences 6

The following courses constitute a state certified minor in health education:

MEN AND WOMEN

Speech 1—Fundamentals of Speech	1
P. E. 102—Personal and Community Health	3
Ed. 103—Studies of Children	3
P. E. 127—First Aid	2
Zool. 133-134—Anatomy, Kinesiology and Physiology	8
P. E. 269—Teaching of Health	3
Psych. 310—Mental Hygiene	3
P. E. 395—School Health Problems	3

The following courses constitute a minor in recreation leadership:

MEN AND WOMEN

Soc. 101—Principles of Sociology	3
Speech 3—Public Speaking	2
Ind. A. 9—Crafts and Hobby Work	2
P. E. 15—Folk and National Dancing	1
P. E. (65-66)—(121-122) Program Skills	2
P. E. 127—First Aid	2
P. E. 150—Recreation (Social and party games, low cost crafts, square dance, theories of play, institutional recreation) ..	2
P. E. 349—Community Recreation (organization & administration, finance, facilities, history of, play ground supervision)	3
	18

Elective courses:

P. E. 7—Beginning Modern Dance	1
P. E. 8—Intermediate Modern Dance	1
P. E. (65-66)—(121-122) Program Skills	6
Dram. A. 105—Play Production	3
P. E. 114—Camp Craft	1
P. E. 113—Life Saving and Water Safety	1
P. E. 142—Camp Leadership	2
P. E. 153—Nature and Function of Play	2
P. E. 275—Teaching of Ballroom and Modern Dance	1
P. E. 274—Teaching of Folk Dancing	1

Elect from the above to total a minimum of ----- 24 hours.

THE RESERVE OFFICERS' TRAINING CORPS DIVISION

GENERAL. Ohio University maintains a Senior Division, Reserve Officers' Training Corps, consisting of two coequal departments:

THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS

THE DEPARTMENT OF AIR SCIENCE

In 1935, the Board of Trustees entered into an agreement with the Government for the establishment of a voluntary ROTC unit which, during subsequent years, has been developed and expanded into the two coequal departments indicated above. A coordinator appointed by the president of the University coordinates affairs of the ROTC and acts as liaison officer between these departments and the university administration.

Each department chairman is the senior officer on duty in the department and is referred to either as the Professor of Military Science and Tactics (P.M.S.T.) or the Professor of Air Science (P.A.S.). Other officers are assigned as assistant professors and enlisted men are assigned as instructors.

Each department offers a two-year basic course and a two-year advanced course. Enrollment in either course is elective and may be pursued as a course for elective credits required for a degree. However, once either course is elected by a student, it becomes a prerequisite for graduation, unless he is relieved from this obligation by the secretary of the Army or the Air Force.

MISSION. The mission of university-level Reserve Officers' Training is to train college students who have the qualities and attributes essential to progressive and continued development so that they may take their places as junior officers in the Regular and Reserve components. In addition, the Army ROTC program provides a source of procurement of junior officers for the Regular Army through the selection of outstanding students for direct appointments as second lieutenants. The Air Force ROTC designates certain Distinguished Cadets who may apply for Regular Air Force Commissions and receive special consideration. All others commissioned by the Air Force ROTC are also eligible to apply for Regular Air Force commissions after serving a part of their active duty tour.

ENTRANCE REQUIREMENTS. In general, any physically qualified male student, who is a citizen of the United States and is more than 14 years of age yet has not reached his twenty-third birthday is eligible for enrollment in the basic course. Certain exceptions to age requirements may be made in the case of veterans.

Applicants for the advanced course must have completed or received credit for the basic course and must meet current selection criteria and must not have reached their twenty-fifth birthday at time of enrollment in the advanced course.

It is necessary for nonveteran students desiring to complete the entire ROTC course to register for ROTC when they first enter college as four years are required to complete the course.

OBLIGATION. A member of the ROTC is not in the military service of the United States and membership in the ROTC carries no legal obligation to serve in any of the Armed Forces. The only obligation is to complete the basic or advanced course, once either course is elected.

DRAFT DEFERMENTS. Since the mission of the ROTC is to produce junior officers who can be called to serve in times of national emergency, the Armed Forces are authorized to grant deferments from military service, subject to quota limitations, to students who are pursuing a ROTC course and who maintain a satisfactory scholastic standing in their academic studies. At present, the authorized quota is sufficient to defer most formally enrolled ROTC students. Military service is an obligation of citizenship and the deferments granted to ROTC students in no way cancel their obligations under the existing selective service law. All students who are granted deferment from military service are required to sign a "Deferment Agreement" under the provision of Public Law 51, the Universal Military Training and Service Act of 1951.

UNIFORMS AND EQUIPMENT. Textbooks, training equipment and complete uniforms are issued to all ROTC students without cost. These articles remain the property of the United States and must be returned. Each ROTC student is required to make a \$20 deposit with the treasurer of the University to cover loss or damage to issued property. This deposit is refunded when all items have been returned to the military property custodian.

Students entering the advanced course receive without cost a complete, tailored officer-type uniform. Upon completion of the advanced course, the student retains this uniform as his own. An allowance of \$0.90 per day is paid to all enrolled advanced course students, except during the period of attendance at summer camp. During attendance at summer camp, students receive pay amounting to approximately \$78 per month and other allowances. Thus it is possible for a cadet to receive over \$700 while in the advanced course.

ROTC COURSES. (See "Courses of Instruction" for a detailed description of ROTC courses.)

ARMY:

The General Military Science program is designed to prepare the individual for a commission in any of the various branches which make up the Army. For example, during recent years Army ROTC graduates of Ohio University have been commissioned in the Adjutant General Corps, Armor, Artillery, Chemical Corps, Finance Corps, Infantry, Medical Service Corps, Ordnance Corps, Quartermaster Corps, and Signal Corps. Assignment to branch will depend on several factors including the needs of the service, the desires of the individual, and his academic background. Every effort will be made to commission Army ROTC graduates in a branch for which they are particularly well fitted by virtue of their college training. From this it may be seen that there are many opportunities available to the student who receives a commission in the Army. Individuals commissioned as a result of their Army ROTC training may be called to active duty for a period of from six months to two years thus fulfilling their military obligation as required by existing laws.

AIR FORCE:

The Air Force ROTC course of study is divided into the basic course covering the first two years and the advanced course covering the junior year, summer camp, and the senior year in that order. The course consists of blocks of instruction totaling 480 hours, allocated as follows: freshman and sophomore years—90 hours each; junior and senior years—150 hours each. In addition, courses of instruction are provided at the summer camp. (See "Courses of Instruction.") This course is designed to provide that fundamental training, both personal and professional, which will best fit the cadet to become a well-rounded junior Air Force officer possessing a high growth potential; and to develop and stimulate a growing desire on his part to enter the Air Force flight training program. Upon completing the course and being selected for commissioning he is assigned a military occupational specialty in accordance with his academic training, his desires and job experience. Cadets who are commissioned may be required to serve a minimum of three years of active duty to fulfill their military obligation as required by existing laws.

COMMISSIONS. Students who have completed the basic course and certain veterans are eligible to apply for the advanced course, specializing in that department and branch of service for which their basic training and academic background have fitted them. A student who successfully completes the advanced course and his academic studies leading to a baccalaureate degree may be offered a commission as a second lieutenant in the U.S. Army Officers' Reserve Corps or the U.S. Air Force Reserve.

Students who have successfully completed the first year of the Army ROTC advanced course and have shown evidence of outstanding achievement in scholarship or extra-curricular activities are eligible for appointment as "distinguished military students" upon recommendation of the president of the University and the P.M.S.T. Distinguished military students are eligible to apply for commissions in the Regular Army. Those students who are selected for Regular Army commissions will be so appointed upon their graduation from the University.

The Air ROTC has a similar program of designation of distinguished AFROTC students. Such students may apply for Regular Air Force commissions and receive special consideration. All other graduates with Air Force Reserve officer commissions are eligible to apply for Regular Air Force commissions after serving on active duty.

SPECIAL SCHOOLING. Under the provisions of the Army and Air Force Civilian School program, Army and Air Force commissioned graduates may apply for graduate study in specialized fields such as automotive engineering, electronics, meteorology, nuclear physics, business administration, economics, educational administration, and psychology. These specialized studies are pursued at government expense by the student officer in residence at distinguished and eminently qualified institutions and lead to a master's degree, or in exceptional cases, to the degree of Doctor of Philosophy.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study. It is approved by and holds membership in the National University Extension Association.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a sufficient number of persons has agreed upon a course. The number necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course.

CORRESPONDENCE STUDY. Courses in many departments are offered and are taught by members of the regular faculty. These courses appeal to any person who wishes to engage in systematic study during his spare time. They may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the University. A student under 21 years of age cannot enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age, or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course if the instructor finds him qualified to carry the course.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the Director of Admissions for admission to residence study.

CREDIT. In extension classes and in correspondence study a student may earn as many as 40 semester hours toward the requirements for a bachelor's degree.

No credit toward a master's degree may be earned by the correspondence method.

Students who are employed full time are limited to a registration of six hours each semester.

If a student is currently registered in residence at Ohio University, or at another college or university, he must have the written permission of his dean to enroll in correspondence study.

BLANKS. Applications for correspondence instruction may be secured from the Director of the Extension Division. Registration blanks for extension class instruction may be obtained from the instructor when the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University, Athens, Ohio.

THE SUMMER SESSION

The Summer Session at Ohio University consists of two five-week terms. It represents a cross section of the total program of the University. Enrollment in the Session in conjunction with the two semesters provides an opportunity for year-round study. A student who enrolls at Ohio University immediately after high school graduation and who attends all summer sessions, may reasonably expect to graduate in three years.

A special bulletin covering the offerings of the Summer Session is available and may be secured by sending a request to the Director of the Summer Session, Ohio University, Athens, Ohio.

COURSES OF INSTRUCTION

Course offerings of the University
grouped and listed alphabetically
according to departments

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is primarily intended.

- 1- 99 for Freshmen
- 100-199 for undergraduates above the Freshman level
- 200-299 for advanced undergraduates (Juniors and Seniors)
- 300-399 for advanced undergraduates and graduates
- 400-499 for graduates

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A *comma* between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (3, 3), (1 to 3—1 to 3), or (2 or 3—2 or 3).

A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with a variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq."

INSTRUCTORS. The instructors in a department are arranged according to seniority of service within the respective ranks as of December 1957.

FEE. When a course requires a private instructional fee, the amount is stated in the description of the course.

CLASS SCHEDULE. A Schedule of Classes is available each semester from the Registrar.

ACCOUNTING

Professors Ray, Beckert (chairman)
Associate Professors Fenzel, Reininga
Assistant Professor Via
Instructor McLaren

75-76. ELEMENTARY ACCOUNTING

(3-3) Beckert, Fenzel, McLaren, Ray,
Reininga, Via

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships.

125-126. INTERMEDIATE ACCOUNTING

(3-3) Beckert, Fenzel, Reininga

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; and investments. Prereq., 76.

175. COST ACCOUNTING

(3) Ray

Manufacturing cost determination under the job-order and process systems. Prereq., 125 or 76 and permission.

217. TAX ACCOUNTING

(2) Reininga

Beginning study of Federal income taxes and State taxes for individuals, partnerships, and corporations. Prereq., 125.

261. TEACHING OF BOOKKEEPING AND BASIC BUSINESS

(2) Beckert

Prereq., 125.

275. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING

(2) Staff

An application of general accounting principles to state, city, and county fund units such as the general, special assessments, highway, and other funds; and to institutions such as hospitals, universities, and other endowed institutions. Prereq., 126.

305-306. ADVANCED ACCOUNTING

(3) McLaren

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, estates and trusts; compound interest applications; governmental accounting; branches, consolidations, and mergers; and foreign exchange. Prereq., 126.

324. STANDARD COSTS AND BUDGETS

(3) Ray

The establishment of standard costs, preparation of budgets, and analysis of cost variances. Prereq., 175.

343. FEDERAL INCOME TAX ACCOUNTING

(2) Reininga

Study of advanced tax problems of individuals, partnerships, and corporations including tax planning and administration. Prereq., 217.

355. INDUSTRIAL AUDITING AND INTERNAL CONTROL

(3) Beckert

Study of types of internal audits, audit reports, fraud, and an appraisal of the standards of internal auditing as a profession. Basic and internal controls are studied in their relation to the auditor's program. Prereq., 126 and 175.

356. AUDITING PRINCIPLES AND PRACTICE

(3) Beckert

Purposes and scope of audits and examinations; audit principles and procedure; application of audit principles to practice material based on actual audit; and audit reports and certificates. Prereq., 126 and 175.

378. C.P.A. PROBLEMS

(3) Reininga

The accounting profession; C.P.A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 175, 306, 356.

379. CONTROLLERSHIP

(3) Reininga

Case method study of problems and policy-forming decisions of the controllership function comprising the fields of general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Prereq., 18 hrs. accounting including 324 which may be taken concurrently.

381. RESEARCH IN ACCOUNTING

(1 to 8) Staff

Prereq., 306, 324 and permission.

391. SEMINAR IN ACCOUNTING

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. accounting and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

ADVERTISING

Professor Krauskopf

Associate Professors Paynter (chairman), Turnbull, Raymond

Assistant Professor Richmond

155. ADVERTISING PRINCIPLES

(3) Krauskopf, Raymond, Richmond, Turnbull

A survey of advertising which considers its place in the field of marketing and its fundamental procedures. Prereq., Mkt. 155 or permission.

286. RETAIL ADVERTISING

(3) Krauskopf, Richmond

The principles of advertising as related to the needs of retailers. Prereq., 155.

332. COPY WRITING

(2) Turnbull

The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 12 or 102.

376. ADVERTISING PROBLEMS

(3) Krauskopf, Richmond

A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

381. RESEARCH IN ADVERTISING

(1 to 8) Staff

Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

391. SEMINAR IN ADVERTISING

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Additional courses:

Psych. 135—Psychology of Advertising and Selling

Jour. 146—Typography, Mechanics, and Makeup

Jour. 247—Newspaper Advertising and Layout

Jour. 277—Newspaper Advertising Practice

Jour. 327—Public Relations Techniques

Jour. 328—Public Relations

Jour. 348—Advertising Production

Jour. 309—Radio—TV Advertising and Management

Art 147-148—Advertising Design

AGRICULTURE

Associate Professor DeVeau (chairman)
Instructor and Farm Superintendent Stright

1,2. INTRODUCTION TO AGRICULTURE (3,3) DeVeau

A two semester general education course for all students to develop an understanding of the efficient use and conservation of agriculture's resources. A survey of the different agricultural enterprises, their interrelationships, and their relation to state and national agricultural problems. Identification of crops and livestock and their use. 2 lec. and 2 lab. (Yearly.)

30. FORESTRY (3) Stright

The practical application of forest products to the farm including identification of common trees and woods. 2 lec. and 2 lab. (Each semester.)

102. GARDENING (3) DeVeau

A study of the production, marketing, and preservation of vegetables for the home and market. A survey of plants raised in the garden and greenhouse. Garden planning and flower arrangement. 2 lec. and 2 lab. (2nd semester.)

104. FRUIT PRODUCTION (3) Stright

Study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, and marketing of tree and small fruits. (2nd semester.)

121. LIVESTOCK MANAGEMENT (4) DeVeau

The fundamentals of dairy, poultry, and general livestock production. A study of feeding programs, breeding methods, housing, judging and selection, record keeping, disease control, and marketing. 3 lec. and 3 lab. (1st semester.)

201-202. AGRICULTURAL PRACTICES (3-3) DeVeau, Stright

Practical experience either on the University farm or in the University greenhouse. 1 lec. and 4 lab. (Yearly.)

216. CROPS AND SOILS (4) DeVeau

A study of the common grain and forage crops. Soil types and their relation to crop production. Use and analysis of manures and fertilizers. 3 lec. and 3 lab. Prereq., Geol. 106. (2nd semester.)

217. SOIL CONSERVATION (3) Stright

A study of recommended practices in soil conservation for practical application on the farm. 2 lec. and 2 lab. Prereq., 216 or permission. (1st semester.)

235. FARM MANAGEMENT (3) DeVeau

The application of agricultural technology and economic information to the securing of maximum income from the farm. Experience in planning a five year farm program for a specific farm in the local community. 2 lec. and 3 lab. Prereq., 121, 216. (1st semester.)

320. AGRICULTURAL ORGANIZATIONS (3) DeVeau

A study of the major educational, commercial, cooperative and service agencies organized to promote agriculture and rural living. 2 lec. and 2 lab. Prereq. 15 hr. agriculture or commerce or both, permission. (2nd semester.)

322. AGRICULTURAL PROBLEMS

(1-4) Staff

Intensive individual work either in research or in systematic reading or both in some advanced phase of agriculture under the guidance of the instructor to meet the needs and interests of the student. Maximum credit in course 9 hrs. Prereq. 15 hrs. and permission. (Each semester.)

381. RESEARCH IN AGRICULTURE

(2-4) Staff

Independent research. Maximum credit in course 6 hours. Prereq., 18 hrs. and permission. (Each semester.)

ARCHAEOLOGY AND ANTIQUITIES

Instructor Hultgren

101. INTRODUCTION TO ARCHAEOLOGY

(3) Hultgren

The development of archaeology to its present status of dignity and scientific method. Aims, methods and techniques; general types of archaeological work and excavation with emphasis on important sites. Maximum credit in course, 6 hrs. (1st sem., yearly.)

252. ARCHAEOLOGY OF THE MEDITERRANEAN AREA

(3) Hultgren

The archaeology of Egypt, Palestine, Greece, and the Aegean islands, with emphasis on Minoan (Cretan) and Mycenaean civilization; to a lesser extent the archaeological remains of the Roman period. Prereq., 101, or 11 hrs. foreign language, or 8 hrs. history (or art history) and antiquities. (2nd sem., yearly.)

Additional courses (fuller descriptions under appropriate departments):

Art Hist. 371—Latin-American Art.* From the pre-Columbian period to the present. Term paper may be specifically archaeological.

Ed. 350—The History of Education. Including ancient, classical, medieval, and modern.

Eng. 284—Mythology in English and American Literature. Classical, Teutonic, and Scandinavian.

F.A. 121-122—History of Painting and Sculpture.* Art from the earliest times to the Renaissance.

F. A. 175-176—History of Architecture. From prehistoric times to the Renaissance.

Geol. 111-112—Historical Geology. Origin of the earth and its forms of life.

Geol. 251-252—Paleontology.* Invertebrate fossils, including larger forms of ancient animal life.

Hist. 115—Ancient History. From prehistoric times.

Lat. 331—The Life of the Romans.* Including evidence from archaeology and antiquities.

Phil. 221—History of Western Philosophy: Ancient and Medieval.

*This and other courses starred are more specifically archaeological.

ARCHITECTURE

Associate Professor Denison
Assistant Professor Olpp
Lecturer LeBoutillier

55. FUNDAMENTALS OF ARCHITECTURE (3) LeBoutillier
Architecture as environmental design. 1 lec. and 4 lab.
56. ARCHITECTURAL GRAPHICS (3) LeBoutillier
Drafting room exercises in the theory and techniques of architectural drawing. 1 lec. and 4 lab.
105. ARCHITECTURAL RENDERING (2) Olpp
Familiarization with basic techniques as used in architectural rendering. Pencil, pen, wash-drawing, and watercolor. Prereq., Art 1 and 2 or permission.
- 155-156. ARCHITECTURAL DESIGN (5-5) LeBoutillier
Design of non-residential buildings and their sites. 1 lec. and 6 lab. Prereq., 55 and 56.
179. ARCHITECTURAL MATERIALS (3) Denison
2 lec. Prereq., permission.
183. ARCHITECTURAL EQUIPMENT (3) Denison
Mechanical equipment used in buildings including plumbing and heating systems. 2 lec. Prereq., Phys. 5, 6 or permission.
257. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (2) Denison
Lectures on residential architecture and housing. Prereq., permission.
258. DESIGN OF RESIDENTIAL ARCHITECTURE (3) Denison
Drafting room exercises supplementing material in 257. 6 lab. Prereq., 257.
- 281-282. ARCHITECTURAL CONSTRUCTION (2-2) Denison
Architectural construction in wood, steel, concrete, and masonry as applied to residential and small commercial and public buildings. 2 lec. Prereq., Math 5, 6 or permission.
284. WORKING DRAWINGS (2) Denison
Drafting room application of the coordinated uses of materials and construction principles. 4 lab. Prereq., 179, 282.
- 285-286. SENIOR DESIGN (5-5) LeBoutillier
6 lab. Prereq., 156, 281, 282.
301. PROBLEMS IN ARCHITECTURE (1 to 3) Staff
Supervised individual projects. Maximum credit in course, 12 hrs. Prereq., senior and junior majors.
375. ARCHITECTURE IN THE UNITED STATES (2) Denison
Development of architecture from colonial times. Prereq., 8 hrs., including F.A. 175-176 or equivalent.

ART

Professors Mitchell, Way, Leach (director)
 Associate Professors Willis, Work
 Assistant Professors Leonard, C. L. Smith,
 Olpp, Hostetler, D. O. Roberts
 Instructors Freimark, Mihal, Toth, Beale
 Lecturers Mutchler, Kelly

ART HISTORY

302. THE NORTHERN RENAISSANCE (3) Leach

The Renaissance as it appeared in the Netherlands, Germany, France, and England in the fifteenth and sixteenth centuries. Prereq., F.A. 17 and 18 or permission.

303. ITALIAN RENAISSANCE PAINTING (3) Olpp

Painting in Italy from the early Florentine and Sienese schools through the fifteenth and sixteenth centuries. Prereq., F.A. 17 and 18 or permission.

304. MANNERISM AND THE BAROQUE (3) Leach

Origin and development in Italy subsequent to 1520 with attention to variations in the North of Europe and in England. Prereq., F.A. 17 and 18 or permission.

371. LATIN-AMERICAN ART (3) Olpp

Architecture, sculpture, and painting of the Hispanic Southwest, Mexico, Central America, the Caribbean area, and South America from Pre-Columbian times to the present. Prereq., F.A. 122, F.A. 176, or permission.

381. IMPRESSIONISM AND POST-IMPRESSIONISM (3) Olpp

Emphasis in developments in French Art between the 1848 Revolution and 1900. The problems of the Academy, Romanticism, Classicism, Realism, Impressionism, Post-Impressionism, Cezanne, and the Symbolists. Prereq., F.A. 17 and 18 or permission.

382. CUBISM, EXPRESSIONISM, AND LATER DEVELOPMENTS (3) Leach

Appearance and development of basic artistic expressions from the beginning of the twentieth century to the present. Prereq., F.A. 17 and 18 or permission.

390. SEMINAR IN ART HISTORY (2 or 3) Staff

Individual and group problems on periods and movements. Detailed reports. Recommended for graduate students in the process of writing a thesis. Prereq., 18 hrs., including F.A. 122 and permission.

Additional courses: F.A. 121-122—History of Painting and Sculpture and F.A. 175-176—History of Architecture. Attention is called to Philosophy 302—Aesthetics.

ART

1-2. DRAWING AND DESIGN (3-3) Staff

Emphasis on the inseparability of drawing and design. Aesthetic principles are dealt with as they arise out of specific problems rather than as separate entities. Required of all freshmen.

3. ELEMENTARY DESIGN FOR TEACHERS (2) Staff
Principles of design, color, lettering, and related problems. Planned for students who expect to major in elementary education. 1 lec. and 3 lab.
21. ELEMENTARY SCULPTURE (2) Staff
Theory and aesthetic application of principles of art with emphasis on volumetric organization. Required of all freshmen.
28. FIGURE DRAWING (2) Staff
Study of the human figure from the nude and draped model. Maximum credit in course, 6 hrs.
91. DESIGN AND COMPOSITION (3) Willis
Special emphasis on color and design. Planned for students who expect to major in home economics. 1 lec. and 5 lab.
- 101-102. DRAWING AND DESIGN (3-3) Staff
Continuation of Art 1 and 2. Required of all Sophomores. Prereq., Art 1 and 2 or equivalent.
- 103-104. REPRESENTATION (3-3) Mitchell
Concentration on and analysis of the representational function in drawing and painting. Especial attention to the demands of scientific illustration. First semester's work in black and white, second semester's in color. Max. credit in course 6 hrs. Prereq., Art 1 and 2 or equivalent.
107. ADVANCED DESIGN (3) Willis
Composition in different media with special attention to practical application. 2 lec. and 4 lab. Prereq., Art 2.
111. DRAWING WORKSHOP (2) Freimark
Experimentation and familiarization with traditional and contemporary drawing techniques and media. Maximum credit in course 4 hrs. Prereq., Art 1 and 2 or equivalent.
- 113-114. LETTERING (3-3) Smith
Basic relationships to typography. Application in the production of posters, book jackets, trade-marks. Experimentation with various media. 6 lab. Prereq., Art 1 and 2 or equivalent.
115. CERAMICS (3) Hostetler
Production processes. Introduction to the chemistry of glazes and simple geology of clays. Field trips to potteries and native clay deposits. 1 lec. and 5 lab.
116. CERAMICS (3) Hostetler
Decorative techniques. Slide lectures concerning decorative techniques of ancient and contemporary ceramic art. Introduction to glaze testing methods. 1 lec. and 5 lab. Prereq., Art 115.
118. WATER COLOR (3) Work
Painting in the studio and out-of-doors. 6 lab. Prereq., Art 2.
120. TEXTILE DESIGN (3) Way
Weaving, block printing, silk screen. Maximum credit in course, 6 hrs. 2 lec. and 4 lab. Prereq., Art 2 or permission.

123. JEWELRY

(2) Willis

Original designs executed in silver and copper. Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., Art 2 and permission.

125. ART IN EVERYDAY LIFE

(2) Way

Appreciation and selection of the best articles available for the home, costume, etc., according to their functional qualities.

128. ADVANCED FIGURE DRAWING

(3) Mutchler

Accent on anatomical construction. For students who have a minimum grade of "B" in the second semester of Art 28. Prereq., permission.

137. FASHION DESIGN

(2) Way

Design in relation to dress and to individual characteristics. Adaptation of historic styles to modern costume. 1 lec. and 3 lab. Prereq., Art 2 or Art 91 and Art 28 or with 28.

147-148. ADVERTISING DESIGN

(2-2) Smith

Magazine, newspaper, and direct mail layout. Creative design and advertising production. 4 lab. Prereq., Art 113.

160. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS

(1 to 3) Leonard, Mihal

Problems in modeling, ceramics, murals, puppets, painting, and other activities related to the elementary school and philosophy of teaching. Prereq., Art 3.

205. PAINTING

(2) Staff

Basic techniques and practices in oil painting. Maximum credit in course 12 hrs. Prereq., Art 2 or permission.

231. SCULPTURE

(3) Hostetler

Modeling from life in clay and plaster. Work with terra-cotta, stone, wood, and metal. Maximum credit in course, 12 hrs. 6 lab. Prereq., Art 28.

240. DESIGN APPLIED TO MATERIALS

(2) Mihal

For art majors planning to teach art in the elementary and secondary fields. Prereq., 9 hrs.

260. TEACHING OF ART

(3) Way

Prereq., 20 hrs. as specified for certification.

271-272. INTERIOR DESIGN

(3-3) Way

A brief study of architectural details and historic styles of furniture as used in modern homes. House plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., Art 2 and permission.

301. INDIVIDUAL PROBLEMS

(1-3) Staff

Senior and graduate registration for individual instruction. Prereq., permission. Max. credit in course 12 hrs.

309-310. PRINTS

(3-3) Roberts

Silk screen, linoleum and wood blocks, etching, aquatint, dry point, lithography, and other related media. 2 lec. and 4 lab. Prereq., 12 hrs. and permission.

313. ADVANCED INTERIOR DESIGN

(3) Way

Research is stressed and original adaptations are made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec. and 4 lab. Prereq., Art 272 and permission.

315. ADVANCED FORM AND COMPOSITION (2) Staff
Maximum credit in course, 4 hrs. Prereq., 12 hrs. and permission.
316. ADVANCED CERAMICS (3) Hostetler
Advanced production methods. Construction of potter's wheel, ball mill, and electric kilns. Advanced glaze and clay testing techniques. Maximum credit in course, 12 hrs. Prereq., 12 hrs., including Art 116 and permission.
- 317-318. ADVANCED ADVERTISING DESIGN (3-3) Smith
Magazine, newspaper, direct mail, and display layout. Prereq., Art 148, and Advt. 155.
321. ADVANCED FASHION DESIGN AND ILLUSTRATION (2) Way
Maximum credit in course, 10 hrs. 1 lec. and 3 lab. Prereq., 12 hrs., including Art 137 and Art 128.
325. ADVANCED JEWELRY (2) Willis
Maximum credit in course, 6 hrs. 1 lec. and 3 lab. Prereq., 12 hrs., including Art 123.
327. ENAMELING (2) Hostetler
Design and construction of metallic objects toward ceramic application of enamels. 1 lec. and 3 lab. Prereq., 12 hrs., including Art 115 and Art 123.
328. FIGURE PAINTING (3) Mutchler
Painting from the nude or costumed figure. A study of the plastic qualities in oil painting in relation to the personal objectives of the individual student. Maximum credit in course 12 hrs., prereq., 12 hrs., including Art 128 or permission.
341. ADVANCED PAINTING (2 or 3) Staff
Maximum credit in course, 12 hrs. Prereq., 20 hrs. and permission.
- 351-352. INDUSTRIAL DESIGN (2 or 3-2 or 3) Toth
Design and presentation of industrial products with emphasis on function, appearance, and material. 4 lab. Prereq., 12 hrs., including Art 231.
- 365-366. ILLUSTRATION (3-3) Mutchler
Accent on student practice. Story and commercial illustration using present-day techniques. Max. credit in course 9 hrs. Prereq., Art 328 and permission.
381. RESEARCH (1-5) Staff
Individual problems of theory and practice involving research techniques. Prereq., permission.
428. FIGURE PAINTING (3) Mutchler
Advanced work from the nude or costumed figure. Max. credit in course 12 hrs. Prereq., Art 328 or equivalent.
431. PRINTMAKING (1-5) D. Roberts
Experimental work in various print media and their combinations. Max. credit in course 12 hrs. Prereq., Art 309 and Art 310 and permission.

436. SCULPTURE (1-5) Hostetler
Advanced work in plaster, wood, stone, direct steel, and ceramic media. Max. credit in course 12 hrs. Prereq., Art 231 and/or permission.
451. INDUSTRIAL DESIGN (1-5) Toth
Advanced problems in the design and presentation of industrial products. Max. credit in course 12 hrs. Prereq., Art 351 or equivalent.
471. PAINTING (1-5) Staff
Advanced work in traditional and contemporary media. Solutions to the student's problems are sought in relation to his personal objectives. Max. credit in course 12 hrs. Prereq., permission.
495. THESIS (1-6) Staff
Prereq., permission.

ASTRONOMY

Professor Goedicke

11. ELEMENTARY ASTRONOMY (2 or 3) Goedicke
Time, latitude, and longitude from celestial observations. Distances, motions, and physical properties of sun, moon, planets, comets, meteors, and meteorites. Atmosphere and surface conditions of other planets. 2 lec. and 2 lab. Credit in course without lab., 2 hours. Lab. must be included if course is to fulfill science graduation requirements. Prereq., Math 3, or 2 yrs. high school mathematics. (1st sem., yearly.)
12. ELEMENTARY ASTRONOMY (2 or 3) Goedicke
Distances, motions, and physical properties of the stars, the nebulae, and the galaxies. Modern theories of the origin and evolution of the stars and galaxies. 2 lec. and 2 lab. Credit in course without lab., 2 hours. Lab. must be included if course is to fulfill science graduation requirements. Prereq., Math 3, or 2 yrs. high school mathematics. (2nd sem., yearly.)
135. ELEMENTS OF NAVIGATION (2) Goedicke
Basic navigational astronomy; the use of the sextant; the Nautical Almanac; the Line of Position Method as used in air and surface navigation. Prereq., Math 5. (Given upon sufficient demand.)
350. STUDIES IN ASTRONOMY (1 to 4) Goedicke
Prereq., 11, 12, and permission. (Given upon sufficient demand.)

ATHLETICS—See Physical Education and Athletics

BIOLOGY

- 1-2. THE LIVING WORLD (3-3) Staff
(See "General Studies," page 223.)
268. TEACHING OF BIOLOGY (2) Stehr, Wallace
A consideration of the purposes of high school biology, instructional materials, classroom methods, source of laboratory equipment and supplies, and examination techniques. Prereq., 12 hrs. biological science. (Yearly.)

BOTANY Associate Professors Blickle, Wallace (chairman), Gombill
Assistant Professors Vermillion, Wistendahl

The major requirement for the A.B. degree is a minimum of 24 hours, and for the B.S. degree 30 hours. The major program must include Bot. 3-4, 105, 106 or 117, 123 or 173, and 203 with at least 6 hours in courses numbered above 300. Biol. 1 and 2 may be substituted for Bot. 3. General Chemistry is required for all majors. Certain courses require additional background as listed in the prerequisites.

3-4. GENERAL BOTANY (3-3) Staff

The structure and functions of plants, life cycles, classification, genetics, a survey of the plant kingdom, and the fundamental inter-relationships of plants and animals, including man. 2 lec. and 2 lab. No credit if Biol. 1 and 2 have been completed. (Each semester.)

105. ELEMENTARY PLANT PHYSIOLOGY (3) Wallace

A basic study of the major plant processes and of the applications of physiological relations of plants to agriculture, industry, and forestry. 2 lec. and 4 lab. Prereq., 4 and 1 yr. college chemistry. (1st sem., yearly.)

106. LOCAL FLORA (3) Gambill

The collection, identification and classification of the flowering plants through the study of the native flora, involving both laboratory and field studies. Two Sat. field trips required. 2 lec. and 2 lab. Prereq., 4 or Biol. 2. (2nd sem., yearly.)

108. VEGETATION OF NORTH AMERICA (2) Wistendahl

An illustrated lecture-demonstration course considering the extensive plant formations of the continent with relationship to economic pursuits of man. Prereq., 4 or Biol. 2. (2nd sem., 1958-59.)

117. DENDROLOGY (3) Gambill

A field course in collection and identification of native and introduced woody plants in both summer and winter condition. 2 lec. and 2 lab. 2 Sat. field trips required. Prereq., 4 or Biol. 2. (1st sem., yearly.)

123. INTRODUCTION TO THE FUNGI (3) Vermillion

A general survey field and laboratory course designed to give the student a working knowledge of the various kinds of fungi. Both taxonomy and morphology are stressed, one supplementing the other. 2 lec. and 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

173. ELEMENTARY PLANT MORPHOLOGY (3) Blickle

A course stressing the plant's true structural nature and the inner relationship of its parts through an analysis of the various plant groups except the fungi. 2 lec. and 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

203. PLANT ECOLOGY (4) Wistendahl

A course dealing with the biological studies of natural plant communities, the environmental factors and their dynamics. 3 lec. and 2 lab. Prereq., 105 or 106 and 117 or 173. (1st sem., yearly.)

210. PLANT BREEDING AND GENETICS (3) Wallace

A course dealing with experimental and practical methods of developing commercial plants and the genetical approach to evolution. 2 lec. and 2 lab. Prereq., 4 and Zool. 107. (2nd sem., 1959-60.)

211. PLANT ANATOMY (3) Blickle

A course designed to embody a comprehensive study of the internal structure of the vascular plant body. 2 lec. and 2 lab. Prereq., 173. (1st sem., 1959-60.)

212. PLANT MICROTECHNIQUE

(3) Wistendahl

The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the photomicrographic camera, camera lucida, calibration, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 173. (2nd sem., 1958-59.)

221. PLANT PATHOLOGY

(4) Vermillion

A general course dealing with the nature, cause and control of plant diseases. 2 lec. and 4 lab. Prereq., 4 and 123 or Agr. 216. (2nd sem., yearly.)

304. FOREST ECOLOGY

(3) Wistendahl

The ecological foundations of forestry, site factors, the forest environment and methods of studying it, growth and development of trees and stands; the origin, development, and classification of forest communities. 2 lec. and 2 lab. Prereq., 203. (2nd sem., 1959-60.)

307. ADVANCED PLANT PHYSIOLOGY

(4) Wallace

An advanced study of plant processes with special emphasis on techniques employed in research. 2 lec. and 4 lab. Prereq., 105 and a course in organic chemistry. (2nd sem., 1958-59.)

311. PALEOBOTANY

(3) Blicke

A study of the fossil representatives of the greater plant groups and the sequence of fossil floras throughout geological time. Two Sat. field trips required. Prereq., 117 or 173 and 3 hrs. geology. (2nd sem., 1958-59.)

314. ADVANCED PLANT MORPHOLOGY

(3) Blicke

A course specifically for botany and forestry majors embodying detailed analyses of seed plant gross structures and their comparative evolutionary relations. 2 lec. and 2 lab. Prereq., 173. (2nd sem., 1959-60.)

315. SYSTEMATIC BOTANY

(3) Gambill

A study of the systematics, nomenclature, and phylogeny of the higher plants beginning with the ferns; relationship of the principal orders and families; problems of nomenclature; identification of specimens. 2 lec. and 2 lab. Two Saturday field trips required. Prereq., 106. (1st sem., 1958-59.)

316. TAXONOMY OF THE NONVASCULAR PLANTS

(3) Gambill

A course dealing with the classification and phylogeny of the bryophytes and lichens. Two Sat. field trips required. 2 lec. and 2 lab. Prereq., 106 and 173. (2nd sem., 1959-60.)

318. WOOD TECHNOLOGY

(3) Blicke

The structure identification, properties and uses of North American forest products, with special attention given to the macroscopic and microscopic structure. 1 lec. and 4 lab. Prereq., 117 and 211. (2nd sem., 1958-59.)

324. FOREST PATHOLOGY

(3) Vermillion

A study of the various types of diseases of forest and shade tree species, their economic importance, prevention and control. Prereq., 117 and 123 or 221. 2 lec. and 2 lab. (2nd sem., 1958-59.)

325. MYCOLOGY

(3) Vermillion

A course designed to acquaint the student with the ways in which man makes use of fungi in agriculture, medicine, and industry. The physiology of fungi is stressed. 2 lec. and 2 lab. Prereq., 123 and 1 yr. college chemistry. (2nd sem., 1959-60.)

343. BOTANICAL STUDIES (2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental projects. Maximum credit in any listed area, 4 hrs.; total 8 hrs. Prereq., 12 hrs. including one listed course in that area and permission.

- a. Plant Morphology—studies of the fundamental plant form, structure, life cycles, and reproduction. *Blickle*
- b. Plant Physiology—studies in the primary functions, processes, and growth phenomena of plants. *Wallace*
- c. Plant Ecology—studies in the interrelations of plants to one another and to the environment. *Wistendahl*
- d. Plant Classification—studies in the principles, theories, and systems of plant classification. *Gambill*
- e. Plant Disease—studies in the nature, prevention, cause and control of plant diseases. *Vermillion*
- f. Plant Breeding—the study of the several methods of hybridization of higher plants, polyploidy and speciation. *Wallace*
- g. Mycology—Advanced studies of nonpathogenic macrofungi and microfungi. *Vermillion*

381. RESEARCH PROBLEMS (1 to 4) Staff

Independent research. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and permission.

391, 392. SEMINAR IN BOTANY (1, 1) Staff

Advanced study and original research. Required of all majors and graduate students. Prereq., 12 hrs. and permission. (Yearly.)

495. THESIS (1 to 6) Staff

Prereq., permission

BUSINESS LAW

Assistant Professor Howard (chairman)
Instructor Willier

252-256. BUSINESS LAW (3-3) Howard, Willier

The principles of law involved in contracts, agency, sales, negotiable instruments, partnerships, and corporations. Prereq., junior or senior rank.

275. GOVERNMENT AND BUSINESS (3) Howard

A study of statutes and court decisions by which government controls, regulates, and aids business under the commerce clause, the police power, and the anti-trust laws. Prereq., 255.

342. LAW OF REAL ESTATE (2) Howard, Willier

Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 256 or permission.

381. RESEARCH IN LAW (1 to 8) Staff

A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 256 and permission.

CERAMICS—See Art

CHEMICAL ENGINEERING—See Engineering

CHEMISTRY

Professors Clippinger, Eblin (chairman)
Associate Professors Day, Huntsman, Kline, Ingham
Assistant Professors Sympson, W. B. Smith, Brooks, Tong

A student who completes the requirements for the B.S. degree with a major in chemistry, as outlined below, is eligible for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the A.B. degree with a major in chemistry, as outlined below, does *not* qualify a student for certification to the Society.

The major requirement for the B.S. degree is a minimum of 41 hours including Chem. 3-4; 99; 109-110; 201-202; 203-204; 313-314; 315; 333; and three additional hours above 300. Outside requirements include Math. 102 and Physics 114, which should be completed by the end of the second year.

The major requirement for the A.B. degree is a minimum of 28 hours including Chem. 3-4; 99; 109-110 or 107; 201-202 or 113; 203 or 117; 313-314 or 211. A full year's work is required in at least one of the following subjects: Quantitative Analysis (109-110), Organic Chemistry (201-202), Physical Chemistry (313-314). Those who elect 211 instead of 313-314 are reminded that the requirements for the A.B. degree include six hours in the major field in courses numbered above 300. Such students should take 201-202 and 203-204 in order to be eligible for 321 and 333, or 109-110 in order to be eligible for 305 and 333.

Students having foreign language requirements should take German, including Ger. 103. Those anticipating graduate study should obtain a reading knowledge of both German and Russian or French.

1-2 GENERAL CHEMISTRY

(4-4) Brooks, Day, Eblin,
Huntsman, Tong

A beginning course designed to provide a general survey of the subject. Chemistry majors and pre-professional students should register for Chem. 3-4. 3 lec. and 3 lab. Prereq., high school algebra.

3-4 GENERAL CHEMISTRY

(4-3) Kline, Ingham

A beginning course designed to give a more intensive treatment than is given in Chem. 1-2. 3 lec. and 3 lab. in first semester; 3 lec. and no lab. in second semester. Concurrent registration in Chem. 99 required in second semester. Prereq., high school algebra.

99. QUALITATIVE ANALYSIS

(2) Sympson, Kline

The separation and detection of cations and anions by semimicro methods. 1 lec. and 3 lab. Prereq., 2 or with 4. (Each semester.)

107. QUANTITATIVE ANALYSIS

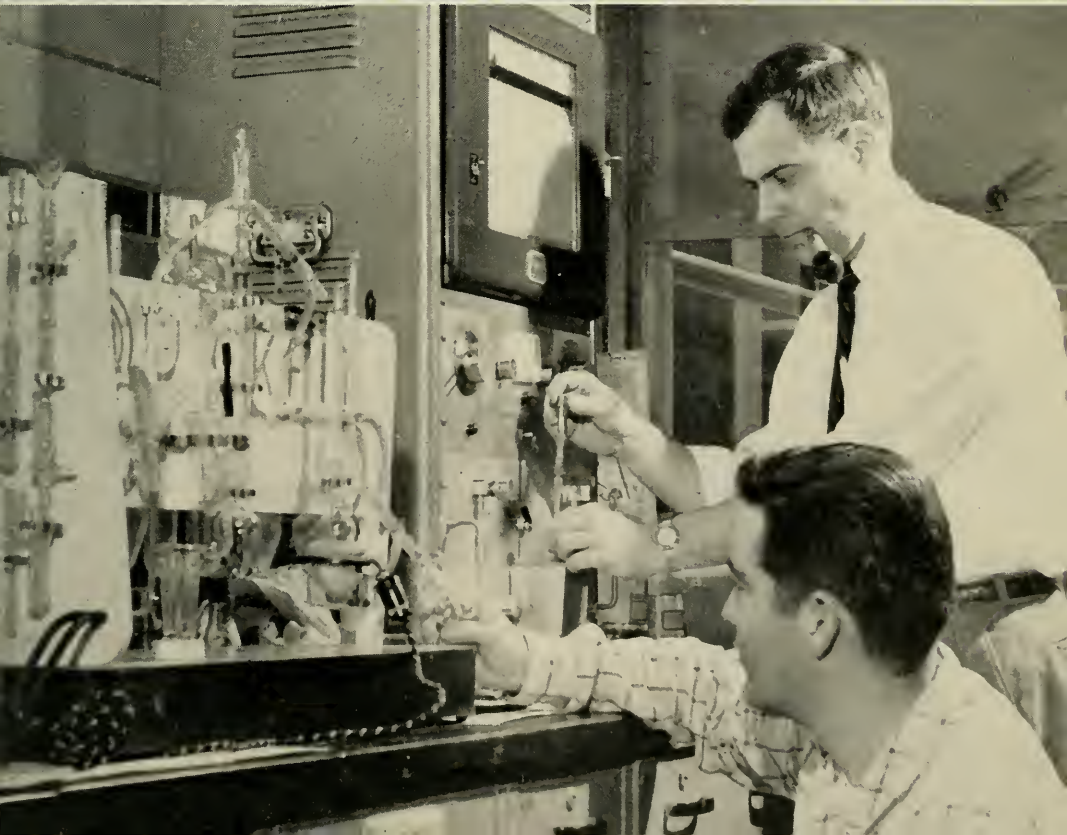
(4) Clippinger, Sympson

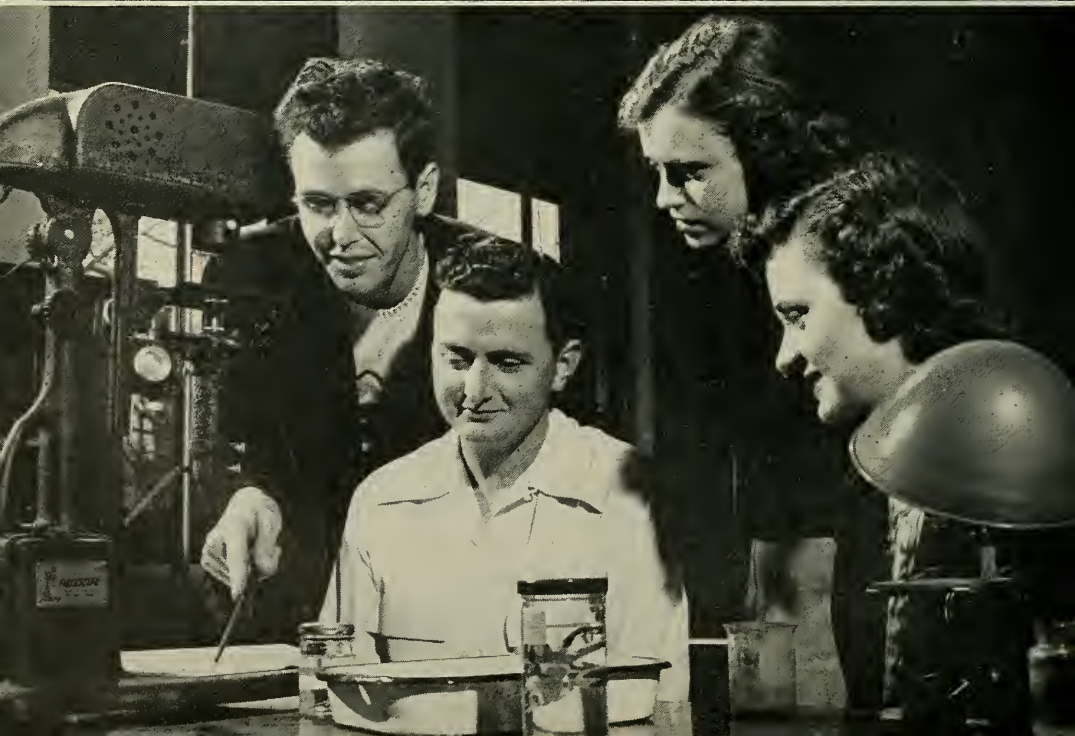
A one-semester course in analytical chemistry designed for students not majoring in chemistry. 2 lec. and 6 lab. Prereq., 99. (Each semester.)

109-110. QUANTITATIVE ANALYSIS

(4-4) Clippinger, Sympson

Chem. 109 is primarily volumetric analysis. Chem. 110 includes gravimetric and electrolytic analysis and an introduction to electro-metric analysis, colorimetry, and polarography. 2 lec. and 6 lab. Prereq., 99. (Yearly.)





113. ORGANIC CHEMISTRY

(4) Huntsman, Ingham, Smith

A one-semester course in the fundamentals of organic chemistry, designed for students not majoring in chemistry or pre-medicine. Prereq., 2 or 4. (Yearly.)

117. ORGANIC CHEMISTRY LABORATORY

(2) Huntsman, Ingham, Smith

A one-semester laboratory course in organic preparations and reactions to accompany Chem. 113. 6 lab. Prereq., 113 or with 113, or 202 or with 202. (Yearly.)

201-202. ORGANIC CHEMISTRY

(3-3) Huntsman, Ingham, Smith

A comprehensive course in organic chemistry which integrates current concepts with a sound classical background. Designed for chemistry and premedical majors as well as others wishing a thorough introductory course in organic chemistry. Prereq., 107 or 109 or with 107 or 109. (Yearly.)

203-204. ORGANIC CHEMISTRY LABORATORY (2-2)

Huntsman, Ingham, Smith

Practical laboratory work in organic chemistry. Designed to accompany Chem. 201-202. 6 lab. Prereq., 201 or with 201 for 203; 202 or with 202 for 204. (Yearly.)

211. PHYSICAL CHEMISTRY

(3) Brooks, Day, Eblin

A one semester course in physical chemistry for pre-medical students and students in liberal arts and education. Prereq., 12 hrs. chemistry and 5 hrs. mathematics. (1st sem., yearly.)

303. ADVANCED QUANTITATIVE ANALYSIS

(3) Sympson

A lecture course in classical analytical chemistry designed for entering graduate students needing further training in analytical chemistry. Prereq., 110 or equivalent. (Yearly.)

305. INSTRUMENTAL ANALYSIS

(4) Sympson

Methods of instrumental analysis: Electrometry, polarography, coulometry, emission and absorption spectroscopy, chromatography. Prereq., 110 and permission. (Yearly.)

313-314. PHYSICAL CHEMISTRY

(3-3) Brooks, Day, Eblin

Not open to graduate students majoring in chemistry. Prereq., 110, Math. 102 and Phys. 114. (Yearly.)

315-316. PHYSICAL CHEMISTRY LABORATORY

(2-2) Eblin

6 lab. Prereq., 313 or with 313. (Each semester.)

317. CHEMICAL THERMODYNAMICS

(3) Brooks, Day, Tong

Prereq., 314 with a grade of C or better. (1st sem., yearly.)

321. QUALITATIVE ORGANIC ANALYSIS

(4) Huntsman, Ingham, Smith

The separation and identification of organic compounds. Preliminary to research in chemistry. 2 lec. and 6 lab. Prereq., 204. (2nd sem., yearly.)

333. INORGANIC CHEMISTRY

(3) Kline, Tong

Inorganic chemical reactions and structure. Prereq., 110 or 202. (1st sem., yearly.)

337. INORGANIC CHEMISTRY LABORATORY

(2) Kline

Practical laboratory work in inorganic chemistry including the preparation of typical inorganic substances and an introduction to the chemical literature. Prereq., 333 or with 333. 6 lab. (Yearly.)

351. SPECIAL PROBLEMS IN CHEMISTRY

(2 or 3) Staff

Minor research with laboratory and library work. Maximum credit in course, 6 hrs. Prereq., 24 hrs. in chemistry with a B average. (Given upon sufficient demand.)

418. CHEMICAL KINETICS

(3) Day, Tong

The purpose of the course is to gain insight into the mechanisms by which chemical reactions occur, and the energies involved, through interpretation of data on rates of reactions. Prereq., 314. (2nd sem., yearly.)

425. QUANTUM CHEMISTRY

(3) Brooks

The fundamentals of quantum theory and their application to some simple systems of chemical interest. Prereq., 314. (1958-59.)

427. SPECIAL TOPICS IN PHYSICAL CHEMISTRY

(2-4) Brooks, Day, Tong

Deals with a special phase of physical chemistry such as kinetic theory of gases, statistical thermodynamics, molecular structure, or applications of thermodynamics. Prereq., 317. (Given upon sufficient demand.)

434. ADVANCED INORGANIC CHEMISTRY

(3) Kline, Tong

Modern theoretical inorganic chemistry. Prereq., 333. (2nd sem., yearly.)

435. SPECIAL TOPICS IN INORGANIC CHEMISTRY

(2 or 3) Kline, Tong

Deals with a special phase of inorganic chemistry such as the less familiar elements, radiochemistry, or the chemistry of coordination compounds and complexions. Prereq., 333. (Yearly.)

445-446. ADVANCED ORGANIC CHEMISTRY

(3-3) Huntsman, Ingham, Smith

Modern aspects of organic chemistry with emphasis on the relationships between structure and reactivity. Prereq., 202. (Yearly.)

451, 452. SEMINAR IN CHEMISTRY

(1, 1) Staff

Selected topics. Required of all graduate students in chemistry each semester in residence. (Yearly.)

471. SPECIAL TOPICS IN ORGANIC CHEMISTRY

(2 or 3) Huntsman, Ingham, Smith

Deals with a special phase of organic chemistry such as physical organic chemistry, heterocyclic compounds, steroids or terpenes. Prereq., 202. (Yearly.)

481. RESEARCH IN CHEMISTRY

(1 to 4) Staff

Prereq., 36 hrs. (Yearly.)

495. THESIS OR DISSERTATION

(1 to 4 for thesis) Staff

Prereq., permission.

CIVIL ENGINEERING—See Engineering**CLASSICAL LANGUAGES**

Professor Murphy (chairman)
Instructor Hultgren

Two types of courses are included: (1) courses in the Greek and Latin languages in the original; (2) courses requiring no knowledge of the original languages.

The major requirement for Greek or Latin for the AB degree is a minimum of 20 hours above courses 1-2 in either subject, exclusive of courses in class (2) above. Majors in Latin should also include Lat. 331 and 333. The major requirement in Latin for the B.S. in Education degree is given on page 132.

GREEK

1-2. BEGINNING GREEK (4-4) Murphy, Hultgren

An introductory study of the language leading to the reading of classical authors. (Yearly.)

27. GREEK WORDS IN ENGLISH (2) Murphy

Terms of Greek origin which provide a major part of the technical vocabulary in many cultural and professional fields. Laboratory assignments in the vocabulary of each student's field of interest. No knowledge of Greek required. Does not give credit toward meeting the foreign language requirement. (1st sem., yearly.)

101-102. GREEK PROSE AND POETRY (3-3) Murphy, Hultgren

Review of language principles. Readings from Homer, Plato, and the New Testament. Prereq., 2. (Yearly.)

309. ADVANCED GREEK READINGS (1 to 3) Murphy, Hultgren

Selections from the poets, dramatists, orators, and philosophers to fit the interests and needs of students. Maximum credit in course, 9 hrs. Offered on demand. Prereq., 12 hrs.

LATIN

1-2. BEGINNING LATIN (4-4) Hultgren

Introductory course leading to reading of Latin stories of history and mythology and selections from easier prose literature. The Latin influence on modern language, literature, and culture. (Yearly.)

101. LATIN REVIEW AND READING (4) Murphy

For those who have had a break of several years in Latin study and need a thorough review. Suitable prose readings of literary interest. Prereq., 2 or 2 yrs. high school Latin. (1st sem., yearly.)

102. VERGIL (4) Murphy

Readings from *Aeneid*, Books I-VI. Vergil as a stylist, poet, and philosopher. Prereq., 101 or 3 yrs. high school Latin. (2nd sem., yearly.)

151. FAMILIAR ESSAYS (3) Hultgren

Cicero's *De Amicitia*, *De Senectute*, *Somnium Scipionis*. Review of essential Latin and study of the literature on friendship. Prereq., 102, 4 yrs. high school Latin, or 3 yrs. and permission. (1st sem., yearly.)

152. HORACE AND TERRENCE (3) Hultgren

A comedy by Terrence and selections from Horace's *Odes* and *Epodes*. Prereq., 102 or 4 yrs. high school Latin. (2nd sem., yearly.)

303. PLINY AND MARTIAL (3) Murphy

Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 152. (1st sem., 1959-60.)

304. LIVY AND OVID (3) Murphy

The legendary history of early Rome and mythology in verse. Prereq., 152. (2nd sem., 1959-60.)

311. CICERO (LETTERS) AND CATULLUS (POEMS) (3) Hultgren

Prereq., 152. (1st sem., 1958-59.)

318. READINGS IN LATIN LITERATURE

(1 to 4) Murphy, Hultgren

Selections from a wide range of Latin literature according to the needs and interests of students. Maximum credit in course, 10 hrs. Prereq., 152. (2nd sem., 1958-59.)

331. THE LIFE OF THE ROMANS

(2) Hultgren

The social customs of the Romans: the family, the house, transportation, public amusements, and related features. Illustrations from the archaeological evidence. Prereq., 8 hrs. or 8 hrs. history and antiquities. No knowledge of latin required. (Given upon sufficient demand.)

333. ADVANCED LATIN SYNTAX

(2) Murphy

Prereq., 152. (Given upon sufficient demand).

340. SPECIAL WORK IN LATIN

(1 to 4) Murphy, Hultgren

Individual work under careful guidance. Maximum credit in course 8 hrs. Prereq., 152.

DESIGN—See Art

DRAMATIC ART

Professors Seigfred, Andersch

Assistant Professors C. Lane, Hahne, Catalano

Instructors Trisolini, Reyes, Feidner

10. INTRODUCTION TO THEATRE

(2) Lane, Staff

The role of the theatre in our culture and the practical application, interrelationships, and over-all unity of various art forms in play production.

21. ELEMENTS OF STAGE SCENERY

(3) Catalano

Basic principles of scenic construction; types and utilization of stage scenery. 1 lec. and 4 lab.

47. THEATRE LABORATORY

(1) Catalano

Costuming, make-up, and technical work coincident with the productions of the University Theatre. Maximum credit in course, 2 hrs.

48. MAKE-UP

(1) Trisolini

2 lab.

99-100. MOVEMENT AND PANTOMIME

(2-2) Hahne

Movement from the viewpoint of dance and drama; body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

105. PLAY PRODUCTION

(3) Trisolini

A general course in play production including choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to majors in theatre.

123. ELEMENTS OF STAGE LIGHTING

(3) Catalano

Stage-lighting units, control equipment, and color media, and their application to play production. 1 lec. and 4 lab.

147. THEATRE LABORATORY

(1 or 2) Catalano

Costuming, make-up, and technical work connected with the productions of the University Theatre. Maximum credit in course, 6 hrs. Prereq., permission.

207. COSTUMING

(4) Andersch

The use of color, line and texture in designing, constructing and adapting costumes for the stage. 2 lec. and 4 lab, plus crew work on productions. Prereq., 21.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH (3) Andersch

Prereq., junior standing, major or minor in Dramatic Art and Speech.

299. PRINCIPLES OF ACTING

(3) Hahne

Elementary techniques of stage action and practice in the reading, cutting, and acting of dramatic literature. 1 lec. and 4 lab. Prereq., 99 and Speech 34.

300. ADVANCED ACTING

(3) Lane

Creation of roles in plays of different types, styles, and periods. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec. and 4 lab. Prereq., 299 and permission.

306. ADVANCED STAGECRAFT

(3) Catalano

Theories and problems involved in scenic decor. The results of experimentation with paint and structure on the model set are applied to full-scale scenery. 1 lec. and 4 lab. Prereq., 12 hrs., including 21 and 123.

321, 322. DRAMATIC COMPOSITION

(3, 3) Trisolini

Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

323. SCENE DESIGN AND PAINTING

(3) Catalano

Theories of the designing and painting of stage settings; effect of stage lighting on scenery and make-up; practical experience. 1 lec. and 4 lab. Prereq., 21, and 123.

339. ACTING FOR LYRIC DRAMA

(3) Trisolini

Advanced techniques of acting in relation to the form and content of lyric drama. Laboratory experience in the creation of roles. Special emphasis on the Elizabethan with some attention to Greek and 20th century authors. 1 lec. and 4 lab. Prereq., 299, 300; Speech 34; English 223.

350-351. PLAY DIRECTION

(3-3) Lane

Preparation of plays for public performance; analysis of the script, methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 300, and permission.

353. MASTERS OF THE THEATRE

(3) Lane

Techniques for the production of historical plays. Preparation of the director's manuscript and actual supervision of production. Open only to majors in Dramatic Art. Prereq., 351, F. A. 180, and permission.

355. THEATRE MANAGEMENT

(2) Seigfred

Organization and business management of theatres. Prereq., senior or graduate rank and permission.

377. PERIOD COSTUME DESIGN

(3) Andersch

An intensive study of the history of costuming from the time of the Egyptians through the 19th century. Emphasis on the use of color, line, and texture and adaptation in the designing of period clothes for the stage. Discussion of the relationship between the political and social trends, the architecture, interior design, etc. of the period and the clothes worn. Prereq., 207 or equivalent, Art 28 or equivalent, or permission.

425. CONTEMPORARY THEATRE

(3) Lane

Trends of modern world theatre beginning with the contributions of Saxe-Meiningen and the growth of realism. Prereq., 18 hrs., including F. A. 179 or equivalent.

435. ADVANCED LIGHTING

(3) Catalano

Lighting design, history of stage lighting. Advanced technical consideration of instruments, control equipment and color media. Production experience. 2 lec. and 2 lab. Prereq., 21, 123, 323 or with 323 or equivalent.

480. SEMINAR IN TECHNICAL THEATRE OR COSTUMING

(3 or 4) Staff

Independent research projects in scene design, lighting, scenery construction or costuming. To be arranged with supervising faculty member in advance of registration. Prereq., 18 hrs. including 323 or equivalent.

481. SEMINAR IN DIRECTING OR THEATRE MANAGEMENT

(3 or 4) Staff

Conferences, independent research or experimentation, and summary reports. Independent research projects must be approved prior to registration. Prereq., 18 hrs. including 351 or equivalent.

494. RESEARCH

(1-12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Suggested courses:

See "Radio-TV" and "Speech and Speech Therapy" under "Courses of Instruction," F. A. 179-180—History of the Visual Theatre, P. E. 7—Beginning Modern Dance, P. E. 8—Intermediate Modern Dance, P. E. 115-116—Advanced Modern Dance, courses in Design or Painting and Drawing (see Art).

DRAWING—See Art**ECONOMICS**

Professors Gubitz, Hellebrandt, Picard (chairman)
Associate Professors Crewson, Levinson
Assistant Professors Witte, Olsen

A student may secure an A.B. degree with a major in economics. This program is designed to give a broad cultural background for those who plan careers in such areas as business, government, or law. This program also provides the basis for those who plan to attend graduate school to prepare for teaching and economic research.

The major requirement in economics is 24 semester hours including Economics 11-12 (or 101-102) and 333. In addition, one course in statistics is required, and this will be determined in consultation with the adviser.

Suggested electives should be chosen from government, history, philosophy, psychology, sociology, and other social sciences with the approval of the adviser.

11-12. PRINCIPLES OF ECONOMICS**(3-3) Staff**

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture. Not open to juniors and seniors.

101-102. PRINCIPLES OF ECONOMICS**(3-3) Staff**

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture. Not open to freshmen nor to those who have had 11 and 12.

305. ECONOMICS OF TRANSPORTATION**(2 or 3 as scheduled) Olsen**

The social, political, and economic aspects of transportation. The economic characteristics of transportation rates and the machinery developed for their determination and adjustment are emphasized. Prereq., 12 or 102.

309. PUBLIC UTILITIES**(2 or 3 as scheduled) Levinson**

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization and regulation of public utilities. Prereq., 12 or 102.

315. PUBLIC FINANCE**(3) Picard**

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 12 or 102.

320. ORGANIZATION AND STRUCTURE OF INDUSTRY**(3) Olsen**

Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, and considers their historic development, financial organization, and legal aspects. Prereq., 12 or 102.

329. COMPARATIVE ECONOMIC SYSTEMS**(2 or 3 as scheduled) Crewson**

An analysis of the institutional framework of the following systems: modified capitalism, socialism, communism, and fascism. Special emphasis is given to the prevailing economic institutions in the United States, Great Britain, Russia, and Spain. Prereq., 12 or 102.

330. HISTORY OF ECONOMIC THOUGHT**(2 or 3 as scheduled) Hellebrandt, Picard**

The historical evolution of the major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neo-classicists. Prereq., 12 or 102.

332. MODERN ECONOMIC THOUGHT (2 or 3 as scheduled) Picard, Witte
An analysis of the contributions to economics of the most significant writers since Alfred Marshall. Prereq., 12 or 102.

333. ECONOMIC THEORY (2 or 3 as scheduled) Witte
An intensive study of the price system as an allocative mechanism. This includes the price and production policies of individual firms under alternative market conditions and an analysis of the effect of these policies on the social efficiency of resource allocation. Prereq., 12 or 102.

335. LABOR ECONOMICS (3) Levinson
Survey of the economic forces generating modern labor problems. Among the topics considered are: history of the labor movement, labor in politics, labor-management relations, wages, and full employment. Prereq., 12 or 102.

338. LABOR LEGISLATION (2 or 3 as scheduled) Levinson
Survey of the law bearing upon labor problems. Among the topics considered are: labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation. Prereq., 335.

342. INTERNATIONAL ECONOMICS (2 or 3 as scheduled) Crewson
A study of the economic relations of nations of the world. Some of the topics considered are: the economic basis for international trade and investment; the mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with the United Nations. Prereq., 12 or 102.

350. NATIONAL INCOME AND EMPLOYMENT ANALYSIS (3) Witte
A study of the factors which determine the level of the nation's economic activity and which are responsible for growth and stability in the nation's economy. Part of the course is devoted to measures of the national income while the remainder consists of an analysis of the interrelationships among production, price levels, relative prices, employment, and capital formation. Prereq., 12 or 102.

355. ECONOMIC HISTORY OF THE UNITED STATES (3) Staff
A study of the economic factors in the development of the United States including the historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to the present. Prereq., 12 or 102.

375. ECONOMIC DEVELOPMENT (3) Crewson
An analysis of the nature of, obstacles to, and future possibilities for the economic growth of nations. Special emphasis is given to the problems of the underdeveloped countries. Studies of selected countries are utilized. Prereq., 12 or 102.

381. RESEARCH IN ECONOMICS (1 to 8) Staff
Prereq., 15 hrs. and permission.

391. SEMINAR IN ECONOMICS (2 to 4) Staff
Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

EDUCATION

Professors Morton, Hansen, Benz,
Shoemaker, Hill, Hamblin (dean)
Associate Professors Quick, C. H. Roberts, McKelvey,
Krantz, Crowell, Felsing, Evans, Lynn
Assistant Professors Dunham, Olson, DeLand, Eisen,
Nelson, Ward, Wilson, Starks, Cooper, Bean,
Shuster, Sligo, Chase, Ullmann, Ploghoft
Instructors Shrigley, Thompson

ELEMENTARY EDUCATION

101. MATERIALS AND METHODS IN KINDERGARTEN-
PRIMARY EDUCATION

(2) Wilson

A study of work and play activities of early childhood; and the development, use, and care of materials best suited to this age group. Prereq., 103.

102. LITERATURE FOR CHILDREN

(3) Hansen, Quick, Starks, Ploghoft

Introduces the student to a study of literature written for children. Experiences with children, developing plans for organizing the literature program in the elementary school, and criteria for evaluating books characterize the course.

103. STUDIES OF CHILDREN

(3) Quick, Starks,
Sligo, Cooper, DeLand

Bases for a developmental theory of education: growth sequences through adolescence; principles of development, behavior, and learning; techniques of child-study; systematic observation in the University Elementary School; implications for educational practice.

125. THE PURPOSES AND PRACTICES OF EDUCATION

(3) Lynn

An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. Not open to students who have had 130. Prereq., second semester sophomore standing.

163. TEACHING OF READING AND LANGUAGE

(3) Hansen, Cooper, Olson

A practical course covering the language arts program in the elementary school. Methods and materials valuable in promoting child development in reading and the expressional phases of language are given major emphasis.

165. TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL

(3) Morton, Benz, Sligo

Criteria for determining the arithmetic program; a grade-by-grade development of topics and of methods of presentation.

169. TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE
ELEMENTARY SCHOOL

(3) Felsing, Shuster

Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon unit teaching, social studies skills, and practical experiences in the teaching of science.

209. WORKSHOP IN ELEMENTARY EDUCATION

(2 to 6) Staff

A service course to help teachers solve the problems they are facing in the classroom. Workshop method of teaching and learning will be used. Prereq., 9 hrs. and permission.

210. STUDENT TEACHING LABORATORY (3) Felsing, Olson, Shuster

A discussion of problems encountered in Student Teaching. A study of the generalizations and principles of classroom administration and pupil adjustment. This course is taken by all students in elementary education concurrently with Ed. 272. It is open to other students by permission of the Director of Student Teaching.

211. THE CHILD AND THE CURRICULUM (3) Felsing

A study of the content of the elementary school curriculum. Emphasis is placed upon the service role of the curriculum to children and society. Prereq., senior rank, Ed. 272.

263. TEACHING OF ARITHMETIC IN THE UPPER GRADES (3) Morton, Benz

Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic and a liberal education.

311. PROBLEMS IN ELEMENTARY TEACHING PRACTICES (3) Staff

Open only to students with the bachelor's degree who are preparing for elementary certification, and who have no student teaching credit. To be given only in connection with the supervision of the student's on-the-job teaching experience. Maximum credit in course, 6 hrs. Prereq., permission.

389. SUPERVISION OF ARITHMETIC (1 to 3) Benz

A summary of research, the implications of educational psychology, and a survey of current trends in the teaching and supervision of arithmetic. Prereq., 9 hrs. education, including a course in the teaching of arithmetic, and Psych. 5.

403. ADVANCED STUDIES OF CHILDREN (3) Quick

An intensive study of certain basic research in child development and its implications for education. Prereq., 15 hrs. education or psychology, or permission.

411. PROBLEMS IN THE ELEMENTARY CURRICULUM (3) Quick

A critical study of the basic issues and theories underlying curriculum development. Prereq., permission.

412. SEMINAR IN ELEMENTARY EDUCATION (2 to 4) Staff

A course designed for teachers and administrators who wish to extend their professional preparation through individual research, group study and planning in the areas of elementary education. Maximum credit in a semester, 2 hrs. Prereq., permission.

Note: For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 155; Ind. A. 115; Mus. 72, 266; P. E. 270; and Art 3, 160.

Special Education—Elementary

Students desiring the state certificate to qualify as teachers of special education classes should consult Mrs. DeLand regarding courses in sociology, psychology, and zoology which are required along with the courses listed below.

222. DIAGNOSTIC AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS (2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with exceptional children.

223. CURRICULUM FOR SPECIAL CLASSES (3) DeLand

Types of curricula for special classes. Units of work, materials and subject matter suited to the mental ability and level of exceptional children.

321. ORGANIZATION OF SPECIAL EDUCATION FOR EXCEPTIONAL CHILDREN (2) DeLand

Educational needs of those who differ markedly from normality—the slow-learning, the retarded, and the gifted; the physically handicapped; the emotionally unstable and socially maladjusted; their characteristics and incidences. Adjustments within regular classrooms, special classes, and special schools; individual child study, classification, and follow-up.

325. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER (2 to 6) DeLand

Designed for the regular classroom teacher in elementary and secondary education who might have retarded or slow learners in with average and rapid learners. How to locate their needs and what to do about them.

SECONDARY EDUCATION

130. SECONDARY EDUCATION (3) Benz, Shoemaker, Krantz, Bean

A historical, comparative, and contemporary study of secondary education. Emphasis is placed on the interrelations of school and society; administrative considerations such as pupil personnel, and the control, support, and organization of schools; and the objectives of education, programs of study, and student activities. Prereq., Psych. 5 and sophomore standing.

228. PRINCIPLES OF TEACHING (3) Shoemaker

Basic principles of learning and teaching, improving classroom procedure, selecting teaching-learning experiences, and measuring the effectiveness of teaching. Prereq., 130, with 280, and Psych. 5.

229. CURRICULUM AND TEACHING PRACTICES (4) Lynn, C. Roberts

Topics which receive major consideration are curricular content and organization, principles of teaching-learning, techniques of classroom work, evaluation, and the respective roles of the teacher and the pupil. Consideration is given to the specific methods of the fields in which the student will be certified to teach. Prereq., Ed. 130.

287. STUDENT TEACHING LABORATORY (2) C. Roberts

Concerned primarily with the problems encountered in student teaching and preparation of resource materials. Some consideration is given also to the adjustments needed for successful entrance into the profession. Prereq., 229 and concurrently with Student Teaching.

374. THE IMPROVEMENT OF READING IN SECONDARY SCHOOLS (2) Staff

The extension of the reading program beyond the elementary school; the teaching of reading as a developmental process. Prereq., 9 hrs. education and Psych. 5.

428. ADVANCED PRINCIPLES OF TEACHING (3) Hill, C. Roberts

A critical appraisal of teaching in the light of available research on learning and teaching. Prereq., 228 (or equivalent) and Psych. 5.

470. SEMINAR IN SECONDARY EDUCATION (2 to 4) Staff

A course designed for teachers and administrators who wish to extend their professional preparation through individual research, group study and planning in the areas of secondary education. Maximum credit in a semester, 2 hrs. Prereq., permission.

PROFESSIONAL LABORATORY EXPERIENCES

272. STUDENT TEACHING IN THE ELEMENTARY GRADES

(2-12) Evans and Staff

To be taken concurrently with Ed. 210. Prerequisites indicated on page 138.

277. FIELD EXPERIENCE

(2) Evans and Staff

A two-week experience in a public school, taken at the opening of the public school year in September, consisting primarily of observation and participation in the total school program with emphasis upon the grade level or subject of primary interest to the student. This experience must be arranged through the Office of the Director of Student Teaching and with the administrative approval of the public school system. Prereq., Sophomore standing.

280. OBSERVATION AND PARTICIPATION

(3) Evans and Staff

An experience in a public school or campus school during a regular University session. Prereq., Junior standing and permission.

281. STUDENT TEACHING IN THE SECONDARY SCHOOLS

(2-12) Evans and Staff

Prerequisites indicated on page 138.

462. FIELD EXPERIENCE IN GUIDANCE

(2) Hill and Staff

(See below.)

GUIDANCE AND COUNSELING

360. GUIDANCE PRINCIPLES

(3) Hill

The need for guidance in the schools. The nature of guidance. The major services, their operation, organization, and evaluation. Prereq., 6 hrs. education and Psych. 5.

361. GUIDANCE PRACTICE

(1 to 3) Hill and Staff

Directed practice in counseling and other personnel services in cooperating schools, to develop greater familiarity and skill in some of the commoner guidance services. Prereq., 360, and permission.

362. INFORMATION SERVICE IN GUIDANCE

(2) Hill

The collection, evaluation, and use of occupational, educational, and related information in the school guidance program. Prereq., 360.

460. SEMINAR IN GUIDANCE

(2) Hill and Staff

Advanced study of special problems in guidance. Prereq., 360, 361 (or equivalent).

461. WORKSHOP IN GUIDANCE [By special arrangement in Summer Session and Extension only]

(1 to 3) Hill and Staff

A concentrated study program for school workers with special attention to guidance problems in the participant's school. Prereq., 360 or equivalent, and permission.

462. FIELD EXPERIENCE IN GUIDANCE

(2) Hill and Staff

Supervised field work in schools in some guidance service. Periodic campus conferences and visitation conferences in the schools are required. Prereq., 361 and permission.

Related graduate courses: Ed. 381—Educational Statistics (3); Ed. 385—Educational Measurements (3); Psych. 303—Mental Measurements (3); Psych. 316—Psychology of Individual Differences (2); Psych. 320—Personnel and Vocational Counseling (3); Psych. 337—Counseling and Psychotherapy (3); H.R. 303-304—Human Relations (6); H.R. 493, 494—Seminar in Student Personnel Administration (6).

HISTORY AND PHILOSOPHY

350. THE HISTORY OF EDUCATION (3) Shoemaker

Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 6 hrs. education and Psych. 5.

351. THE SCHOOL IN THE SOCIAL ORDER (3) Shoemaker

Education in the United States from the colonial period to the present. The social, political, economic, religious, and philosophical foundations which have conditioned the evolution of the public schools. Prereq., 6 hrs. education and Psych. 5.

352. COMPARATIVE EDUCATION (3) Shoemaker

A study of the educational systems of various countries and the extent to which they meet the needs of the people. Prereq., 6 hrs. education or history or government, and permission.

353. THE EVOLUTION OF EDUCATIONAL THOUGHT (3) Shoemaker

Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbart, and Dewey. Prereq., 6 hrs. education and Psych. 5.

354. PHILOSOPHY OF EDUCATION (3) Shoemaker

A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 6 hrs. education.

355. SOCIAL FOUNDATIONS OF EDUCATION (3) Shoemaker

The interactions between the school and the social order in which it exists. The role of the school will be studied in various types of contemporary societies. Prereq., 6 hrs. education.

358. WORKSHOP IN ECONOMIC EDUCATION

(Summer Session and Extension only)

(1 to 3) Bean

A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission.

450. HIGHER EDUCATION

(2) Staff

A survey of the background and growth of higher education in the United States. Present status of various types of institutions will be studied. Prereq., permission.

LIBRARY SCIENCE
(See Library Science)

RESEARCH AND SCIENTIFIC TECHNIQUES

241. AUDIO-VISUAL TEACHING AIDS

(2) Staff

Sources, selection, and use of audio-visual aids to instruction; their integration in the school program; selection, operation, and maintenance of equipment.

381. EDUCATIONAL STATISTICS

(3) Sligo

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Prereq., 6 hrs. education and Psych. 5.

382. ADVANCED EDUCATIONAL STATISTICS

(3) Sligo

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 381.

385. EDUCATIONAL MEASUREMENTS

(3) Sligo

The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures. Prereq., 6 hrs. education and Psych. 5.

388. CONSERVATION EDUCATION WORKSHOP (Summer Session only)

(5) Staff

A field course designed primarily for teachers in service. Relationships between conservation and the natural sciences primarily for the elementary and junior high school teacher. Approval of adviser.

483. RESEARCH IN EDUCATIONAL STATISTICS

(1 to 6) Sligo

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 382 and permission.

484. RESEARCH IN EDUCATION

(1 to 6) Staff

Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5, and permission.

488. INTRODUCTION TO GRADUATE STUDY

(3) Hill, Sligo

Methods of research in education and the selection, planning and evaluation of research problems. The history and purposes of graduate education. Required of all graduate students in education. Prereq., open to all graduate majors and minors in education and to others by permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION**332. THE HIGH SCHOOL CURRICULUM**

(3) C. Roberts

The high school program of studies, contributions of various subjects, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education, including 130.

340. SCHOOL PUBLIC RELATIONS

(2) Staff

The function of public relations in school administration in public understanding of the school's work, development of the media for effective communication, and furthering lay participation in determination of school policy. Prereq., 6 hrs. education and Psych. 5.

410. ADMINISTRATION OF THE ELEMENTARY SCHOOL

(2) Ploghoft

The responsibilities of both teachers and principal in democratic administration in such areas as curriculum construction, supervision, plant management, public relations. Practical problems used as a basis of study. Prereq., 6 hrs. education, including 440.

430. HIGH SCHOOL ADMINISTRATION

(2) Lynn

The program of studies, the program for health, vocational education, guidance, extracurricular activities, provisions for individual differences, the selection and assignment of teachers, and the school schedule. Prereq., 6 hrs. education, including 440.

440. LOCAL SCHOOL ADMINISTRATION**(3) Krantz**

Emphasis upon local and community school administration, including the administrative process, democratic school administration, the role of leadership, structural organization of schools, the board of education and the superintendency. Prereq., 6 hrs. education.

441. STATE AND NATIONAL SCHOOL ADMINISTRATION**(3) Krantz**

Emphasis upon state and national school administration, including the state program of education, state responsibility, educational organization, certification and tenure, national educational services, federal relations to education and national problems in education. Prereq., 440.

442. SCHOOL FINANCE AND BUSINESS ADMINISTRATION**(2) Chase**

Local, state and federal finance, with problems in the financing of schools; business management in such areas as the school budget, financial reports, school purchasing, transportation and insurance. Prereq., 6 hrs. education, including 440.

443. SCHOOL LAW**(2) Bean**

The constitutional basis for education, schools and their legal setting, school legislation and court decisions, with special reference to Ohio school law. Prereq., 440.

444. HUMAN PROBLEMS IN SCHOOL ADMINISTRATION**(3) Benz**

A course dealing with problems of human relations in school administration. Prereq., 9 hrs. education, including 440, and permission.

445. SCHOOL BUILDING PLANNING**(2) Chase**

The planning of new school buildings and sites, plant evaluation, rehabilitation, maintenance problems, and school equipment. Prereq., 440.

446. SUPERVISION OF INSTRUCTION**(2 to 6) Felsing, Shuster**

The principles underlying democratic supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., 410 and 211, or 332 and 430.

447. PERSONNEL ADMINISTRATION IN PUBLIC SCHOOLS**(3) Krantz**

Designed to prepare administrators to meet their personnel problems including the underlying philosophy of personnel administration, development of policies covering selection, classification, certification, tenure, contracts, in-service training programs, and placement of teaching and non-teaching personnel in the schools. Prereq., 12 hrs. education.

472. LABORATORY SCHOOL PROBLEMS**(2) Staff**

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Prereq., permission.

473. SUPERVISION OF STUDENT TEACHING**(2 to 6) Staff**

Designed to prepare students for the work of the supervising teacher in a college or university. Major emphasis will be upon directing student teachers in learning to teach children. Prereq., permission.

TEACHING TECHNIQUES

See the respective departments for courses in methods and techniques of instruction.

ELECTRICAL ENGINEERING—See Engineering**ENGINEERING**

Dean E. J. Taylor
 Professors Green, P. H. Black
 Associate Professors McClure, Thomas, Lausche,
 Badger, Quisenberry, Selleck, G. E. Smith,
 Curry, Hicks, Nellis
 Assistant Professors Wickham, Niesse,
 Hoffee, Barnhill, Lindley, Russ, R. Smith
 Instructors Sarchet, Bjerre, Rogers
 Acting Instructors Essman, Fletcher
 Hinkle, Horvath, Rose
 Lecturers Cartland, Larson

ENGINEERING**229. COACHING FOR PROFESSIONAL ENGINEERS EXAMINATION**

(1 to 3) Staff

A review of the fundamental engineering subjects with emphasis on the type of questions usually asked on the Ohio State Professional Engineers examination. The first half of the course covers general engineering subjects and the second half a specific field. Credit not counted toward an Engineering degree. Prereq., permission.

381. RESEARCH

(1 to 6) Staff

Prereq., approval by chairman of department in which work is performed.

390. SPECIAL INVESTIGATIONS IN ENGINEERING

(1 to 3) Staff

Individual work or work in small groups, under guidance, in research or advanced study in a particular field of engineering. Maximum credit in course, 6 hrs. Prereq., approval by chairman of department in which work is performed.

391. SEMINAR

(1 to 3) Staff

Prereq., approval by chairman of department in which work is performed.

495. THESIS

(1 to 6) Staff

Prereq., approval by chairman of department in which work is performed.

ENGINEERING DRAWING

(Mr. Thomas, chairman)

1-2. ENGINEERING DRAWING (2-2) Thomas, Nellis, Wickham, Barnhill, Sarchet

Freehand lettering, use of instruments, geometric constructions, freehand drafting, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawing. Intersections, developments, tracings and blue prints. Working drawings made from actual machine parts are dimensioned in the accepted American Standard method. 6 lab.

3. THE SLIDE RULE

(1) Thomas, Nellis

Prereq., Math. 5.

15. INDUSTRIAL ARTS DRAWING**(3) Wickham**

Pictorial methods, working drawings, gears, cams, screws, fastenings, architectural drawings, delineation, perspective, mechanical lettering, related information and special instruments of interest to teachers of mechanical drawing. 9 lab. Prereq., 1.

21. DESCRIPTIVE GEOMETRY**(2) Thomas, Nellis, Wickham, Barnhill, Sarchet**

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 2 lab. Prereq., 1.

102. DESCRIPTIVE GEOMETRY**(2) Thomas**

Practical applications of the representation, intersection and development of plane surfaces. Double curved surfaces as used in ship, automobile and aircraft construction are included. Daily exercise sheets. 1 lec. and 2 lab. Prereq., 21.

115-116. MACHINE DRAFTING**(3-3) Nellis, Wickham**

Standard and basic representations as applied to commercial drafting and their application to detail and assembly drawings. 6 lab. Prereq., 2.

CHEMICAL ENGINEERING**(Dr. Curry, chairman)****101. INTRODUCTION TO CHEMICAL PROCESS PRINCIPLES AND EQUIPMENT****(3) Staff**

The application of chemistry, physics and elementary thermodynamics to the solution of typical industrial problems. Prereq., Chem. 109, Math 101.

211. MATERIALS AND METALLURGY**(3) Staff**

An introductory course for engineers. Fundamental metallurgical theory, including physical properties of metals and alloys. Selection of engineering materials. Prereq., C.E. 222 or with C.E. 222.

220. THERMODYNAMICS AND KINETICS**(3) Staff**

Application of thermodynamics to chemical engineering problems. Use of kinetic theory in interpretation of reaction mechanisms and prediction of reaction rates for industrial chemical processes. Prereq., 101 and M.E. 221.

310-311. UNIT OPERATIONS**(3-3) Staff**

A study of the fundamental principles of fluid flow, heat transfer and other basic unit operations with problems to illustrate the principles. Prereq., Ch.E. 101 and (for 310), Chem. 313, (for 311) Chem. 314.

312. UNIT OPERATIONS LABORATORY**(2) Staff**

Laboratory practice to illustrate the principles of selected unit operations and unit processes and to aid students in gaining confidence in the handling of pilot plant equipment. Development of ability to devise workable procedures and to conduct experiments with minimum supervision is stressed. Improvement of skill in oral and written reporting is a parallel objective. 6 lab. hours. Prereq., 310 and with 311 and 320.

320. UNIT PROCESSES**(3) Staff**

Investigation of typical industrial chemical processes with respect to the unit steps such as nitration, sulfonation, reduction and hydrolysis, which arranged in varying sequence constitute the processes. Consideration is also given to sources of raw material and energy, to types of equipment, and to the role of economics. Prereq., 310.

340. DESIGN AND INSTRUMENTATION**(5) Staff**

Project work involving chemical process design, including evaluation and extension of fundamental data by calculation, choice of operating conditions, estimation of costs, selection of equipment, and the application of automatic controls. 3 lec. and 6 lab. Prereq., Senior standing; 311, 320 and Chem. 314.

CIVIL ENGINEERING**(Mr. Badger, acting chairman)****10. PLANE SURVEYING****(3) Staff**

Basic theory underlying field measurements for engineering work. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec. and 3 lab. Prereq., Math. 5.

120. APPLIED MECHANICS**(3) Badger, Russ**

Laws of equilibrium of forces; friction; centroids and moment of inertia. Prereq., Math. 101 or with Math. 101.

121. APPLIED MECHANICS**(3) Badger, Lindley**

Motion of a particle and of rigid bodies. Work and energy; impulse and momentum. Prereq., 120.

213. ADVANCED SURVEYING**(3) Staff**

Application of surveying principles to topographic mapping. Field application of the principles of route engineering. 9 hrs. of lab. Prereq., 10, with 260.

222. STRENGTH OF MATERIALS**(3) Badger, Russ**

Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. 3 lec. and 2 lab. Prereq., 120, Math. 102 or with Math. 102.

223. MATERIALS TESTING LABORATORY**(1) Badger**

A series of experiments on the tensils, compressive, and shearing strengths of the principal engineering materials. 2 hrs. of lab. Prereq., with 222.

224. FLUID MECHANICS**(3) Russ**

Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes and open channels; elementary theory of pumps and turbines. Prereq., 121 or with 121.

225. SOIL MECHANICS**(3) Lindley**

Theories of earth pressure and bearing capacities, with application to the design of earth structures. 2 lec. and 2 lab. Prereq., 222.

228. REINFORCED CONCRETE THEORY**(2) Lindley**

A study of the basic theory relating to reinforced concrete design. Prereq., 222.

230. STRUCTURAL ANALYSIS I**(4) Badger, Russ**

Application of the laws of static equilibrium to the analysis of forces in component parts of engineering structures. Prereq., 120.

231. STRUCTURAL DESIGN I**(4) Lindley**

A study of the design of structural members in steel and other metals. Prereq., 222 and 230.

- 240. HYDRAULICS LABORATORY** (1) Russ
Experimental study of orifices, weirs, flow in pipes and channels; hydraulic jump; turbines; pumps. 2 lab. Prereq., 224 or with 224.
- 241. HYDROLOGY** (2) Staff
A study of precipitation data, relationships between rainfall and runoff, with applications to irrigation, flood control, erosion control, and municipal and industrial water supply. Prereq., 224.
- 249. WATER SUPPLY ENGINEERING** (3) Staff
Source, treatment, and delivery of pure water. Theory of design and construction of various types of water purification plants. Prereq., 224.
- 250. SANITARY ENGINEERING** (3) Staff
Collection, treatment and disposal of sanitary and industrial wastes. Theory of design and construction of various types of sewage disposal processes. Prereq., 224.
- 260. ROUTE ENGINEERING** (2) Staff
Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods and tracks as applied to transportation routes. Prereq., 10.
- 261. HIGHWAY ENGINEERING** (3) Staff
Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 260.
- 270. ENGINEERING ECONOMY** (3) R. D. Smith
Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works. Course open to junior or senior engineering students only, except by permission.
- 313. ADVANCED SURVEYING PROBLEMS** (2) Staff
Principles and practices in calculations for azimuth, latitude, and longitude by observations on Polaris and the sun with the transit. Land surveying problems, contour lines, use of the plane table. 1 lec. and 3 lab. Prereq., 213.
- 314. PHOTOGRAMMETRY** (3) Staff
Equipment and methods used in aerial photography. Use of map-making equipment and study of specialized equipment used by private aerial survey organizations and government agencies. Prereq., 213.
- 326. ADVANCED STRENGTH OF MATERIALS** (3) Staff
Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 222 and Math. 315 or with Math 315.
- 330. STRUCTURAL ANALYSIS II** (4) Russ
Theory of analysis of structures for which the conditions of static equilibrium are not sufficient to obtain a solution. Prereq., 222 and 230.
- 331. STRUCTURAL DESIGN II** (3) Lindley
A study of the design of reinforced concrete members and structures, and a continuation of steel design. Prereq., 228, 231, 330 or with 330.

For other advanced courses in Civil Engineering, see page 208.

ELECTRICAL ENGINEERING
(Dr. Quisenberry, chairman)

103. BASIC ELECTRICAL ENGINEERING

(5) Hoffee

Basic concepts of D.C. circuits, Kirchoff's laws, network theorems, bridges, potentiometers, D.C. circuit analysis, potential dividers, D.C. measurements, force on conductors, elements of magnetic theory, batteries and electro-chemistry. 3 lec., 2 lab. and 2 computation. Prereq., Math. 6.

104. BASIC ELECTRICAL ENGINEERING

(5) Hoffee

Basic concepts of A.C. currents, voltage power, inductance and capacitance. Single phase circuit analysis, complex operators, vector diagrams. Instruments and measurements. Oscilloscope, oscillograph and frequency measurements D.C. time constants. Elements of polyphase circuits. 3 lec., 2 lab. and 2 computation. Prereq., Math. 6, E.E. 103 and with Physics 114.

201. CIRCUITS AND MEASUREMENTS

(4) Quisenberry, Smith, Bjerre

Direct current circuits and measurements, magnetic circuits and measurements, alternating current circuits and measurements, single-phase and three phase. Not open to Electrical Engineering majors. 3 lec. and 2 lab. Prereq. Math 102 and Physics 113-114.

202. ELECTRICAL MACHINERY

(2) Quisenberry, Smith, Bjerre

Direct and alternating current machinery. Not open to Electrical Engineering majors. 1 lec. and 2 lab. Prereq. 201.

301-302. COMMUNICATION ENGINEERING

(4-4) Green

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, amplifiers, modulators, radiation, and applications to radio and telephone apparatus. 3 lec. and 2 lab. Prereq., 104 and 308.

303-304. ELECTRICAL MACHINES

(5-5) Selleck

Characteristics and performance of direct and alternating current motors and generators and single and polyphase static transformers. 4 lec. and 2 lab. Prereq., 103-104.

307-308. ENGINEERING ELECTRONICS

(3-3) Smith

A comprehensive theoretical and practical treatment of the fundamentals of electronics and the general properties of electron tubes with application to engineering. 2 lec and 2 lab. Prereq., Math. 102 and E.E. 104.

309. APPLIED ELECTRONICS

(3) Cartland

Fundamental network analysis, vacuum and gas diodes, triodes, welding timers and pulse circuits, induction heating, industrial electronic control, magnetic-amplifiers, strain gages. Not open to Electrical Engineering majors. 2 lec. and 2 lab. Prereq., E.E. 201.

310. SEMI-CONDUCTORS

(3) Bjerre

Physics of semiconductors. Transistor equivalent circuits, amplifiers, oscillators, modulation and detection. 2 lec. and 2 lab. Prereq., 307 or with 307.

321-322. HIGH FREQUENCY CIRCUITS AND ELECTRO MAGNETIC RADIATION

(3-3) Green

Application of electronic and communication principles to high frequency circuits and a study of electro magnetic radiation and antennae. Prereq., 308 or 202 and 309 or permission.

- 323, 324. **ADVANCED RADIO LABORATORY** (1 to 4, 1 to 4) Green
Special problems of current interest in the field of radio engineering. 2-8 labs. Prereq., 104.
325. **ACOUSTICS** (3) Green
Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement; characteristics of speakers, microphones and receivers; design of horns; acoustics of auditoriums, theaters and broadcasting studios; public address systems. 2 lec. and 2 lab. Prereq., Math. 102 and Phys. 113-114.
328. **ILLUMINATING ENGINEERING** (3) Staff
Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 2 lec. and 2 lab. Prereq., Math. 102 and Phys. 114.
331. **SERVOMECHANISMS** (3) Quisenberry
Automatic controller design, including the study of viscous output damping, error rate damping, integral control, error rate stabilization networks and transfer functions. Prereq., 304 or 202, Math. 315.
332. **CONTROL OF ELECTRICAL MACHINERY** (3) Selleck
Magnetic and electronic motor controllers, including a study of control theory and applications to given problems. Prereq., 201 or 304.
334. **ADVANCED CIRCUITS** (3) Quisenberry
The Laplace Transform applied to transient solutions of linear systems. Special attention is given to electromechanical systems, including feedback and vacuum tube amplifiers. Prereq., Math. 315.
335. **ELECTRIC AND MAGNETIC FIELDS** (3) G. E. Smith
A study of electrical phenomena from the viewpoint of field theory. Prereq., Math. 315, and E.E. 104.
341. **ELECTRICAL TRANSMISSION OF POWER** (3) Selleck
Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 202 or 304.
342. **SYMMETRICAL COMPONENTS** (3) Quisenberry
Circuits analysis by symmetrical components. Representation of unbalanced polyphase currents and voltages by component symmetrical sets; solution of faults on power systems. Prereq., 202 or 304.
344. **ELECTRICAL DESIGN** (3) Selleck
Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 304.
- 345-346. **PROBLEMS IN ADVANCED A. C. MACHINERY** (3-3) Staff
Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec. and 2 lab. Prereq., 304.

401. ELECTRICAL STATION DESIGN

(3) Quisenberry

The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Prereq., 304.

For other advanced courses in Electrical Engineering, see page 208 under "Engineering."

MECHANICAL ENGINEERING

(Mr. Black, chairman)

113. METAL PROCESSING

(2) Black

Theory of machining and the mechanics of metal cutting; friction, wear and lubrication in machining. Production processes. Prereq., Ind. A. 13 and/or with C.E. 120.

201. KINEMATICS

(3) Niesse

A study of basic mechanisms including analytical and graphical analyses of linkages, cams, gears, and gear production methods. Prereq., C.E. 121 or with C.E. 121.

211. ENGINEERING METALLURGY

(3) Taylor

An introductory course for engineers. It includes a survey of the art of extracting metals from their ores and adapting them for use. 2 lec. and 2 lab. Prereq., Chem. 4, and Phys. 113.

221. THERMODYNAMICS I

(3) Hicks

Energy, heat and work, cycles, reversibility, availability, first and second laws, entropy, real and perfect gases. Laboratory work on application, calibration of gauges, manometers, indicators, tachometers and other instruments. Prereq., Math. 102 and Phys. 113.

222. THERMODYNAMICS II

(3) Hicks

Fluid flow, gas mixtures, combustion calculations, power cycles and dynamics of compressible flow. Laboratory work on flow meters, calorimetry, fuel and gas analysis and testing of steam-power units. Prereq., 221.

227. STEAM POWER PLANTS

(3) Lausche

Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, steam engines and turbines, and condensers. Prereq., 221 and Math. 102.

229. STEAM POWER LABORATORY

(2) Hicks

Testing of engines, turbines, pumps, fans, nozzles, and orifices. Prereq., 222.

295. INDUSTRIAL SAFETY

(2) Taylor

The nature, causes and cost of industrial accidents and occupational diseases. Methods of accident prevention; educational, physical and supervisory. Improving ambient environment. Regulations and state laws. Prereq., Phys. 114.

302. DYNAMICS OF MACHINERY

(3) Black

Analytical and graphical studies of velocities and accelerations, and of static and inertia forces in machinery; engine force analysis and balancing of machinery. Prereq., 201 and C.E. 121.

303. MACHINE DESIGN I (3) Black
Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members and units of power transmission. Prereq., 113, 201, 211, and C.E. 222.

304. MACHINE DESIGN II (3) Black
Application of the work covered in 303 to the design of complete machines and sub-assemblies. 6 lab. Prereq., 303 or with 303.

311. AIR CONDITIONING AND REFRIGERATION (3) Staff
Psychrometrics, heating, cooling, humidifying and decontamination of air for domestic and commercial purposes. Refrigeration systems. Heat pump. Cooling-load calculations. Refrigeration and heating practice. Prereq., 222, or 221 and permission.

312. INTERNAL COMBUSTION ENGINES (4) Staff
Analysis and testing of spark-ignition and compression-ignition engines including combustion, thermodynamics, carburetion, detonation, fuels and fuel injection. 3 lec. and 2 lab. Prereq., 222.

314. HEAT TRANSFER (3) Hicks
Basic concepts of conduction, convection and radiation; steady and unsteady states, film coefficients and dimensional analysis. Prereq., 222.

392. ADVANCED MACHINE DESIGN (3) Black
Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; mechanical vibration; Coriolis' acceleration; Castigliano's theorem; and graphical analysis. Prereq., 303 and permission.

393. LUBRICATION AND FRICTION (3) Black
Derivation of Reynold's equation and its application to bearings and gear teeth; load capacity and thermal equilibrium. Boundary lubrication, lubricant composition, surface finish, bearing materials and bearing performance. Prereq., Math. 315, C.E. 121 and permission.

394. MECHANICAL VIBRATIONS (3) Niesse
The characteristic phenomena of mechanical vibrations encountered in machines and structures, and their quantitative investigation. Simple-harmonic motion; combinations of simultaneous motions; free and forced vibration; damping effects; critical speeds; balancing; electro-mechanical analogy; principles of transmission and isolation of vibration; systems of several degrees of freedom; self-excited vibration; instrumentation. 2 lec. and 2 lab. Prereq., C.E. 121 and Math. 315.

395. ADVANCED THERMODYNAMICS (3) Hicks
A review of classical thermodynamics, the Maxwell relations, free energy, kinetic equilibrium of combustion. Prereq., 222.

For other advanced courses in Mechanical Engineering, see page 208 under "Engineering."

ENGINEERING DRAWING—See Engineering

ENGLISH

Professors Wray (chairman), Foster, Kendall
 Visiting McGuffey Professor Summers
 Associate Professors McQuiston, Lash,
 Kirchner, Thompson, Stone
 Assistant Professors L. Brown, Hand, Knecht,
 Pickard, Whan (chairman, freshman English),
 Aney, Butterworth, Swardson, Culbert
 Visiting Assistant Professor Stanton
 Instructors Kasten, R. Roe, Wells, R. C. Brown, MacGibbon,
 Hogan, Molin, Davidson, Lettis, Curran, Violette, Morris,
 McDonnell, Groff, Purdum, Greene, Williams, Mintzloff,
 Palmer, I. G. LaFollette, E. Raymond, A. Roe

The major requirement for the A.B. degree consists of a minimum of 25 hours beyond 3-4 distributed as follows: (a) 101, 102; (b) 323 or 324; (c) at least six hours chosen from 311, 312, 321, 322, 331, 371; (d) at least nine hours so chosen that two periods (18th, 19th, 20th centuries) are represented from 332, 341, 342, 351, 352, 353, 356, 361, 362, 368, 372; (e) 396.

Students who write well may secure permission to vary these requirements in order to pursue an English major in creative writing.

A limited number of English majors may before April 15 of their junior year submit to the chairman of the department a written request to follow the honors program during their senior year. In addition to meeting the university requirements for honors work (see page 72), students in this program will attend the English Masters Seminar and achieve distinction in the comprehensive examination in English 396.

The requirement for the minor (optional) is 101, 102, and at least two additional courses (6 hours), chosen from 200 or 300 courses, not concentrated in one literary type, century, or field.

1. ENGLISH COMPOSITION (3) Staff

The grammatical elements of English composition, the sentence, and the paragraph. After completing English 1 with a grade of not less than C, students are required to pass English 3-4. Credit for Eng. 1 is not counted toward a degree. (Each semester.)

3-4. ENGLISH COMPOSITION (3-3) Staff

A progressive course in written composition. Beginning with a brief review of the fundamentals of grammar and paragraph building, English 3 concentrates on the writing of clear, forceful exposition. English 4 offers more scope for reading, discussion, and analytical writing. (Each semester.)

101. SOPHOMORE ENGLISH LITERATURE (I) (3) Staff

A survey of English literature from the Middle Ages through the Seventeenth Century, with particular emphasis upon Chaucer, Shakespeare, and Milton. Prereq., 4. (Each semester.)

102. SOPHOMORE ENGLISH LITERATURE (II) (3) Staff

A survey of English literature from the Eighteenth Century to the present, including major figures. Prereq., 4. (Each semester.)

111. THE CHIEF AMERICAN WRITERS (I) (3) Staff

Examination of the representative prose and poetry of the Colonial writers and a more detailed study of the works of the principal authors before the Civil War. Prereq., 4. (Each semester.)

112. THE CHIEF AMERICAN WRITERS (II) (3) Staff
A study of selected prose and poetry of the well-established post-Civil War writers and some consideration of well-known recent writers. Prereq., 4. (Each semester.)
223. SHAKESPEARE (I) (3) Wray
Shakespeare's principal comedies and historical plays read in conjunction with a review of his life and background. The primary emphasis is on reading with understanding and enjoyment. Prereq., 4. (1st sem., yearly.)
224. SHAKESPEARE (II) (3) Wray
Shakespeare's principal tragedies, with particular attention to his dramatic technique and the Elizabethan stage. Prereq., 4. (2nd sem., yearly.)
262. THE CONTEMPORARY ENGLISH AND AMERICAN NOVEL (3) Kendall
Recent British authors, including Galsworthy, Conrad, Joyce, Bennett, and Woolf; American authors, including Cather, Dreiser, Lewis, Wolfe; living writers such as Maugham, Huxley, Hemingway, Faulkner; best novels of the season. Prereq., 4. (2nd sem., 1958-59.)
263. MODERN BRITISH AND AMERICAN DRAMA (3) Staff
Types and tendencies in English, Irish, and American drama since about 1890. A reading and discussion of plays by Wilde, Shaw, Synge, O'Casey, Fry, O'Neill, Anderson, Connelly, Hellman, Sherwood, Saroyan, and Williams. Prereq., 4. (1st sem., 1959-60.)
264. THE TEACHING OF HIGH SCHOOL ENGLISH (3) L. Brown
A study of the content and presentation of grammar, composition, and literature—poetry, drama, novel, and short story. Prereq., 4 and junior or senior rank. (1st sem., yearly.)
266. THE SHORT STORY (3) McQuiston
A historical and critical study of the short story, including its origin and evolution as a literary form, its masters in the past such as Poe and De Maupassant, and modern classics. Prereq., 4. (2nd sem., 1958-59.)
275. THE ENGLISH AND AMERICAN NOVEL (I) (3) Stone
The message and method of the first great novels in English: Fielding, Austen, Scott, Dickens, Thackeray, the Brontës, Hawthorne, and Melville. Class discussion and lecture. Frequent quizzes. Prereq., 4. (1st sem., yearly.)
276. THE ENGLISH AND AMERICAN NOVEL (II) (3) Stone
The message and method of the great novels from mid-Victorian times to the first world War: Trollope, Eliot, Twain, James, Crane, Hardy, Conrad, Butler, Dreiser, and Maugham. Class discussion and lecture. Frequent quizzes. Prereq., 4. (2nd sem., yearly.)
277. ENGLISH AND AMERICAN BIOGRAPHY (3) Kendall
The development of biography as a literary form in Great Britain and the United States; its technique; and the masterpieces considered in relation to their authors, subjects, and social background. Prereq., 4. (1st sem., 1959-60.)

281. THE EUROPEAN NOVEL

(3) Lash

Reading of famous European novels of the Nineteenth and early Twentieth centuries in translation, with chief emphasis on the Russian, French, German, and Scandinavian. Prereq., 4. (1st sem., 1959-60.)

282. EUROPEAN DRAMA

(3) Lash

Readings in English of typical plays by Sophocles, Aristophanes, Plautus, Moliere, Ibsen, Strindberg, Hauptmann, Rostand, Chekov, Gorki, Molnar, Pirandello, Copek, and Sartre. Prereq., 4. (2nd sem., 1959-60.)

284. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE

(3) Lash

A study chiefly of Greek and Roman mythology with special reference to the allusions found in major English and American writers. Prereq., 4. (2nd sem., yearly.)

285. THE BIBLE AS LITERATURE (I)

(3) Foster

An analysis of the historical books of the Old Testament, and other narratives, together with a brief survey of the early poetry and prophecy. Prereq., 4. (1st sem., yearly.)

286. THE BIBLE AS LITERATURE (II)

(3) Foster

Prose and poetry from the Old Testament; the life and the sayings of Jesus; and the letters of Saint Paul, with special emphasis on continuity of Hebrew literary traditions in the Old and the New Testaments. Prereq., 4. (2nd sem., yearly.)

290. CREATIVE WRITING

(3) Kendall

Individual work in the writing of fiction and non-fiction—short stories, essays, articles, verse. Prereq., 4. (Each semester.)

293. SOPHOMORE COMPOSITION

(3) Culbert, Lash and Staff

An extended study of the rhetorical and grammatical principles of effective composition; practical work in a variety of writing problems. Section 293e is designed specifically for future teachers in English in junior and senior high schools. Prereq., 4. (Each semester.)

311. HISTORY OF THE ENGLISH LANGUAGE

(3) R. Roe

An elementary account of the growth of the English language; its relation to other world languages; the vocabulary and grammar of Anglo-Saxon, Middle English, and Modern English; selections from Early English literature. Prereq., 12 hrs. (1st sem., 1958-59.)

312. CHAUCER

(3) Staff

Chaucer, his life and his world; contemporary literature; his early works; *The Canterbury Tales*; *Troilus and Criseyde*; Chaucer scholarship. Prereq., 12 hrs.; 311 recommended. (2nd sem., 1958-59.)

321. SIXTEENTH CENTURY LITERATURE

(3) Wray

A study of England's part in the Renaissance and the humanistic movement as revealed in the works of the chief poets and prose writers of the century. Prereq., 12 hrs. (1st sem., 1959-60.)

322. ELIZABETHAN DRAMA

(3) Kendall

A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art. (2nd sem., 1956-60.)

323. SHAKESPEARE (I)

(3) McQuiston

Shakespeare's development as a writer of comedies and historical dramas; his life and social background; the Elizabethan stage and theatrical companies. A research paper. Prereq., 12 hrs. (1st sem., yearly.)

324. SHAKESPEARE (II)

(3) McQuiston

Intensive analysis of the great tragedies and more rapid reading of the other tragedies and the sonnets; Shakespearean scholarship and criticism. A research paper. Prereq., 12 hrs. (2nd sem., yearly.)

331. SEVENTEENTH CENTURY LITERATURE

(3) Foster

The poetry and prose of such writers as Donne and Bacon; Herrick and other Cavalier and "metaphysical" poets; Browne, Walton, Hobbes, Bunyan, Pepys; Restoration plays. Prereq., 12 hrs. (1st sem., 1958-59.)

332. MILTON

(3) Foster

Emphasis on John Milton's minor poems, some of his prose, and *Paradise Lost*, *Paradise Regained*, and *Sampson Agonistes*. Prereq., 12 hrs. (2nd sem., 1958-59.)

341. EIGHTEENTH CENTURY LITERATURE (I)

(3) Molin

The poetry of Pope and Gay; the essays of Addison and Steele; and the works of Swift and Defoe; the novels of Richardson and Fielding; the drama. Prereq., 12 hrs. (1st sem., 1959-60.)

342. EIGHTEENTH CENTURY LITERATURE (II)

(3) Molin

Dr. Johnson, his works, his personality, his friends; Boswell and his biography of Johnson; Goldsmith and Sheridan; Walpole; Gray and Cowper; the philosophers. Prereq., 12 hrs. (2nd sem., 1959-60.)

351. POETRY OF THE ROMANTIC PERIOD

(3) Kendall

The poetry of Wordsworth, Coleridge, Byron, Shelley, Keats; philosophical background and historical context of Romanticism—Rousseau, Godwin, the French Revolution, the Napoleonic Empire. Prereq., 12 hrs. (1st sem., 1958-59.)

352. VICTORIAN POETS

(3) Kirchner

The influence of the Victorian Age upon the lives and the poetry of Tennyson, the Brownings, Arnold, Swinburne, the Rossettis, Morris, and Clough. Prereq., 12 hrs. (2nd sem., 1958-59.)

353. ENGLISH PROSE OF THE NINETEENTH CENTURY

(3) Wray

A study of the essayists and major prose writers of the Romantic and Victorian periods, including Lamb, Hazlitt, DeQuincey, Coleridge, Carlyle, Newman, Ruskin, Huxley, and Arnold. Prereq., 12 hrs. (1st sem., 1958-59.)

356. EMERSON, THOREAU, AND THE CONCORD GROUP

(3) Kirchner

A study of Emerson, Thoreau, Alcott, Fuller, and others whose lives and writings were influenced by that American form of idealism known as Transcendentalism. Prereq., 12 hrs. including 111. (2nd sem., 1959-60.)

361. TWENTIETH CENTURY PROSE

(3) Stone

An intensive analysis of such writers as Joyce, Faulkner, Hemingway, and Wolfe. Prereq., 12 hrs. (1st sem., 1958-59.)

362. TWENTIETH CENTURY DRAMA

(3) Thompson

An intensive analysis of such writers as Shaw, O'Neill, Anderson, Williams, and O'Casey. Prereq., 12 hrs. (2nd sem., 1958-59.)

368. TWENTIETH CENTURY POETRY

(3) Foster

An intensive analysis of such poets as Eliot, Auden, Frost, Thomas, and some younger poets. Prereq., 12 hrs. (2nd sem., 1959-60.)

371. HISTORY OF LITERARY CRITICISM

(3) Thompson

A review of the theories and practice of literary criticism in Europe from Aristotle through the Renaissance, neoclassic, and Romantic schools to the present. Prereq., 12 hrs., (1st sem., 1959-60.)

372. PRACTICAL LITERARY CRITICISM

(3) Thompson

A survey of the distinctive ways whereby modern literary scholars attempt to elucidate and evaluate works of literature. Readings in contemporary criticism and preparation of critical papers that will exemplify some of the distinctive techniques of literary analysis. Prereq., 12 hrs., including 371 and permission. (2nd sem., 1959-60.)

390. STUDIES IN ENGLISH

(1 to 3) Staff

Directed reading and research in English or American literature for individual students with special interests and competence. Conferences and papers. (See also the Honors Program.) Maximum credit in course, 6 hrs., Prereq., 12 hrs. and permission of chairman. (Each semester.)

391-392. MASTERS SEMINAR

(1-1) Staff

Discussion of problems of research and of criticism in relation to theses in progress. Required of English majors in the honors program and of candidates for the master's degree in English who are writing a research thesis. (Yearly.)

393-394. CREATIVE WRITING SEMINAR

(3-3) Kendall

Criticism of manuscripts and discussion of problems of form. Required of candidates for the master's degree in English who are submitting creative work in lieu of the research thesis. Prereq., 290 or equivalent, permission. Admission only in the fall, except for unusual reasons. (Yearly.)

396. SENIOR SURVEY OF ENGLISH LITERATURE

(1) Swardson

An intensive survey of English literature including a wide background of reading, weekly lectures presented by staff members and a comprehensive final examination. Required of senior English majors in the College of Arts and Sciences. (Yearly.)

401. BIBLIOGRAPHY AND THESIS WRITING

(3) Aney

Students are given an introduction to basic reference works, scholarly and critical journals, and pertinent bibliographies. Assigned exercises in methodology may include the field of the student's course work or thesis. Required of all candidates for the Master's degree in English. (1st sem., yearly.)

470. SEMINAR IN LITERARY PROBLEMS

(3) Staff

Intensive study of an author, group, or form. Maximum credit in course, 6 hrs. (Yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission. (Each semester.)

FINANCE

Professor Cherrington (chairman)
Associate Professor Fichthorn
Assistant Professor Dawson
Lecturer Wolfe

75. PERSONAL FINANCE

(2) Cherrington

Considered are such subjects as installment purchases, savings accounts, savings bonds, borrowing, life insurance, annuities, buying a home, investments in securities, investment companies, and taxes. Prereq., Not open to juniors and seniors nor to students working toward the Bachelor of Science in Commerce degree.

101. FINANCIAL INSTITUTIONS

(3) Staff

Commercial banking, consumer credit, long-term funds for business, security exchanges, savings institutions, insurance, investment companies, urban real estate financing, farm credit, and the Federal Reserve System. Prereq., Ec. 12 or 102.

121. CORPORATION FINANCE

(3) Staff

Stocks and bonds, financing industrial, public utility and railroad companies, investment banking, securities markets, short-term financing, dividend policies, expansion and combination, refinancing, recapitalization, and reorganization. Prereq., 101 and Acct. 76.

275. INVESTMENT PRINCIPLES

(3) Cherrington

Information for individual investors which can be used in the management of personal investment problems. Among the topics to be considered are investment risks and how they can be handled, yields, analysis of financial statements, securities markets and their behavior. Prereq., 121.

306. SECURITY ANALYSIS

(3) Fichthorn

The problems of selection or sale of securities for investment purposes. Industry structure, volume-price-cost relationships, management, financial position, terms of the security contract, and market price behavior are studied to determine the attractiveness of a security. Construction of portfolios for individual investors is considered briefly. Report writing and case discussion. Prereq., 275.

312. CREDIT AND COLLECTION MANAGEMENT

(3) Fichthorn

The process of extending credit to business firms and of collecting outstanding indebtedness. Subjects covered include financial statement analysis, types of credit information and its evaluation, policies for extending credit, determining credit limits, collections, and credit department organization and administration. Emphasis is on mercantile and bank credit. Report writing and case discussion. Prereq., 121.

315. PROPERTY AND CASUALTY INSURANCE

(3) Fichthorn

Analysis of the principal types of property and casualty insurance policies with respect to protection afforded the policyholder, his obligations, and cost of protection. Policies studied include fire and extended coverage, allied lines, business interruption, inland marine, automobile, general liability, theft, and bonds. The subjects of risk, insurance-law, industry organization, and multiple-peril policies are also covered. Prereq., 121.

316. LIFE INSURANCE

(2 or 3 as scheduled) Dawson

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 12 or 102 or permission.

341. MONEY AND BANKING

(3) Dawson

The basic concepts of money, credit, and exchange with emphasis on bank credit expansion by the Federal Reserve and commercial banks, and a study of monetary policies followed by the Federal Reserve and Treasury. A historical study of the development of the monetary system of the United States. Prereq., 121 or 12 hours economics.

351. MONETARY THEORY

(3) Dawson

A study of the theories advanced to explain the relationship between money and its value, the relationship between money and the level of economic activity, allocations of funds among alternate uses, and interest and interest rates. Prereq., 341 or permission.

356. PROBLEMS IN CORPORATION FINANCE

(3) Cherrington

This course is developed through the use of cases which deal with short-term financing, long-term financing, reserve and dividend policies, expansion and combination, refunding, recapitalization, and reorganization. Prereq., 121.

381. RESEARCH IN FINANCE

(1 to 8) Staff

Special studies in money, banking, or corporation finance. Prereq., 9 hrs., Ec. 12 or 102 and permission.

391. SEMINAR IN FINANCE

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 12 or 102 and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Additional course: Ec. 315—Public Finance.

FINE ARTS

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field. Advanced courses are listed under the offerings of the various departments.

The minor requirements for the B.F.A. degree may be fulfilled by completing 18 hours in the following courses, including F.A. 17-18. (See page 144.)

17-18. INTRODUCTION TO THE FINE ARTS

(3-3) Seigfred, Olpp, Bergsagel

Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

121-122. HISTORY OF PAINTING AND SCULPTURE

(3-3) Olpp

Periods, styles, and great personalities from early times to the present. Analysis of aesthetic qualities in masterpieces of art.

123-124. HISTORY OF MUSIC

(3-3) Bergsagel

Music from ancient times to the present. Not open to students who have received credit in Mus. 5-6. Prereq., 17-18 or permission.

175-176. HISTORY OF ARCHITECTURE

(3-3) Denison

The development of architecture with emphasis on environmental influences. Illustrated lectures.

179-180. HISTORY OF THE VISUAL THEATRE

(3-3) Lane, Hahne

Survey of theatrical production and acting. Development of the related arts of dance and the motion picture.

203-204. HISTORY OF ORATORY

(3-3) Staats

Survey from the Greek and Roman periods to modern times.

FRENCH—See Romance Languages**GENERAL STUDIES****1-2. Biology—THE LIVING WORLD**

(3-3) Staff

Biol. 1 deals with the fundamental similarities and differences among plants and animals; their protoplasm, cells, tissues, and organs; their physiological processes; and their reproduction, growth, and development. Biol. 2 is concerned with studies of representatives of the principal groups of plants and animals from the standpoint of structure, life history, and classification. The fundamental principles of heredity, evolution, ecology, and geographical distribution of organisms are set forth. 2 lec. and 2 lab. This course is not designed for botany or zoology majors; but if it is taken, a maximum of three hours' credit may be allowed toward such a major, at the discretion of the department concerned. No credit allowed for this course for students who have completed Bot. 3-4 or Zool. 3-4. Not open to juniors and seniors. (Yearly.)

3, 4. Physical Science—THE PHYSICAL WORLD

(3,3) Staff

A general physical science course designed for non-science majors. Emphasis is placed on basic scientific laws and principles and the solution of related problems without use of formal mathematics. Laboratory experiments are designed to help in the understanding of the various areas studied. Phys. Sci. 3 includes an introduction to astronomy, meteorology, and topography, while 4 includes chemistry and physics. 2 lec. and 2 lab. Does not fulfill physics requirements for science majors. Not open to juniors and seniors. (Yearly.)

7, 8. Humanities—GREAT BOOKS

(3, 3) Culbert, Hultgren, Murphy, Wells

Guided reading and discussion of literary masterpieces, ancient and modern, as an introduction to the Western humanistic tradition: man's relation to God, right and wrong, society, and environment. Open to those who are eligible for or have taken English 3. Not open to juniors and seniors. (Yearly.)

107, 108. Humanities—GREAT BOOKS

(3, 3) Culbert

Guided reading and discussion of literary masterpieces, ancient and modern, as an introduction to the Western humanistic tradition: man's relation to God, right and wrong, society, and environment. Not open to freshmen or to those who have had Humanities 7 and 8. (Yearly.)

9, 10. Social Science—CITIZENSHIP IN THE MODERN WORLD

(3, 3) Everett, Fairfield, Murphree, Park

Soc. Sci. 9 is an introductory analysis of human behavior, drawing primarily on anthropology, sociology, and briefly on biology. Soc. Sci. 10 focuses on parties and politics, the democratic heritage and its rivals, and contemporary political problems. Not open to juniors and seniors. (Yearly.)

209, 210. Social Science—CITIZENSHIP IN THE MODERN WORLD

(3, 3) Fairfield

Approaches to human behavior and personality through advanced readings from several fields. In the second semester the course stresses American culture and character and the political crisis in an international community. Not open to freshmen and sophomores or to those who have had Soc. Sci. 9, 10. (Yearly.)

GEOGRAPHY AND GEOLOGY

Professor Sturgeon (chairman)
Assistant Professors Phelps, Aukland
Instructors Lehrer, Korsok

The major requirement for the A.B. degree is 30 semester hours in approved departmental courses and Geol. 1-2. Geol. 111-112 and 223 are required for those students specializing in physical geography.

GEOGRAPHY**3. ELEMENTS OF PHYSICAL GEOGRAPHY (3) Staff**

An introductory study of the elements of the physical environment: earth-sun relationships, landforms, weather and climate, and soils. Not open to juniors, seniors, or students who have had Geog. 150. (Each semester.)

4. WORLD REGIONAL GEOGRAPHY (3) Staff

An introductory study of the world by regions wherein the physical background, land utilization, and cultural development is surveyed. Not open to juniors, seniors, or students who have had Geog. 150. (2nd sem., yearly.)

15. ECONOMIC GEOGRAPHY (3) Staff

A study of the world distribution of man's basic economic activities: extractive, agricultural, and manufacturing industries, in partial relationship to the physical environment. Not open to juniors and seniors. (Each semester.)

150. GEOGRAPHY AND ENVIRONMENT (3) Staff

A survey of man's response and adjustment to the varied natural environment throughout the world employing the concepts of human geography. Not open to students who have had Geog. 3 or 4. (Each semester.)

175. FUNDAMENTALS OF METEOROLOGY (3) Lehrer

An introductory study of the elements of weather: temperature, pressure, moisture, and wind. Weather map analysis. 2 lec., 2 lab. (1st sem., yearly.)

176. FUNDAMENTALS OF CLIMATOLOGY (3) Lehrer

An introductory study of the climates of the world: their distribution, characteristics, and causes. 2 lec., 2 lab. Prereq., Geog. 175. (2nd sem., 1959-60.)

202. GEOGRAPHY OF THE UNITED STATES AND CANADA (3) Lehrer

A systematic and regional study of the U.S. and Canada: the physical environment, natural resources, agriculture, and cultural development. (1st sem., yearly.)

215. CARTOGRAPHY (3) Korsok

The elementary principles of map projections, map drawing and graph making. Prereq., permission. (2nd sem., yearly.)

231. GEOGRAPHY OF OHIO (3) Korsok

A detailed regional study of the physical background and economic development of Ohio. (1st sem., 1958-59.)

232. CONSERVATION OF NATURAL RESOURCES (3) Staff
Problems in the conservation of soils, water, minerals, forests and wild life as related to land use. The interrelations of these various factors and their educational significance are emphasized. Field trips. (1st sem., yearly.)
301. GEOGRAPHY OF THE SOVIET UNION (3) Korsok
Intensive geographic study of the Soviet Union. Prereq., 3 and 4, or 150*. (2nd sem., 1958-59.)
305. GEOGRAPHY OF LATIN AMERICA (3) Lehrer
Intensive geographic study of Latin America. Prereq., 3 and 4, or 150*. (1st sem., 1958-59.)
308. GEOGRAPHY OF EUROPE (3) Korsok
Intensive geographic study of Europe. Prereq., 3 and 4, or 150*. (2nd sem., 1959-60.)
312. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS (3) Korsok
Intensive geographic study of Southern and Eastern Asia. Prereq., 3 and 4, or 150*. (1st sem., 1959-60.)
322. GEOGRAPHY OF AFRICA (3) Lehrer
Intensive geographic study of Africa. Prereq., 3 and 4, or 150*. (2nd sem., 1958-59.)
360. POLITICAL GEOGRAPHY (3) Staff
Geographic basis of national strength or weakness. Physical and cultural influences upon historical development emphasized. Prereq., 6 hrs.* (1st sem., 1958-59.)
382. GEOGRAPHICAL STUDIES (1 to 4 a semester in any of the following) Staff
Supervised studies in fundamentals of geographic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs., and permission. (Each semester.)
- a. Cartography. *Korsok*
 - b. Conservation of Natural Resources. *Staff*
 - c. Economic Geography. *Korsok*
 - d. Meteorology and Climatology. *Lehrer*
 - e. Physiography (See Geol. 383-a). *Lehrer*
 - f. Political Geography. *Korsok*
 - g. Regional Geography. *Staff*

GEOLOGY

The major requirement for the A.B. or B.S. degree is a minimum of 30 semester hours in approved departmental courses numbered above 100, including 111, 112, 131, 132, 223, 241, 251, 252, 282, 314, 343, 362, field camp and Geol. 3, 4, and 215. In addition, the following extra-departmental work is required: general chemistry, 8 hrs.; C.E. 10, 3 hrs.; Math. 5, 5 hrs.; physics, 8 hrs.

1-2. ELEMENTS OF GEOLOGY (3-3) Staff

Elementary geology including studies of earth features, processes, and principles and an introduction to earth history; laboratory exercises with maps, minerals, rocks, and fossils. 2 lec., 2 lab., and field trips. Geol. 1 not open to students who have had 103, or 106. (Yearly.)

*Upperclassmen and graduate students in related fields such as history, economics, government, and sociology may take the course by special permission.

103. ENGINEERING GEOLOGY**(3) Phelps**

Study of geologic materials, methods, and principles of value to engineers. 2 lec., 2 lab., and field trips. Not open to students who have had 1 or 106. (1st sem., yearly.)

106. AGRICULTURAL GEOLOGY**(3) Sturgeon**

Study of geologic materials, methods, and principles of value to students of agriculture. 2 lec., 2 lab., and field trips. Not open to students who have had 1 or 103. (2nd sem., 1958-59.)

111-112. HISTORICAL GEOLOGY**(2-2) Sturgeon**

Earth history emphasizing geologic development and stratigraphy of North America. 2 lec., 1 lab., and field trips. Prereq., 2. (Yearly.)

131. MINERALOGY I.**(3) Phelps**

Elements of crystallography and the introduction to descriptive mineralogy. 2 lec., 2 lab. Prereq., 2 and Chem. 2 or 4. (1st sem., yearly.)

132. MINERALOGY II.**(3) Phelps**

Determinative mineralogy using physical and chemical means for the study of the common ore and rock-forming minerals. 1 lec., 4 lab. Prereq., 131. (2nd sem., yearly.)

223. PRINCIPLES OF GEOMORPHOLOGY**(3) Aukland**

Introduction to the origin of surface features and pertinent geologic structures emphasizing the land forms of the world. 2 lec., 2 lab., and field trips. Prereq., 10 hrs. including 112. (1st sem., 1958-59.)

224. GLACIAL GEOLOGY**(3) Aukland, Phelps**

Introduction to study of glaciers and glaciation. 2 lec., 2 lab., and field trips. Prereq., 112. (2nd sem., 1958-59.)

241. PETROLOGY**(3) Phelps**

Study of rocks emphasizing origin, composition, physical properties, field classification, and identification. 2 lec., 2 lab., and field trips. Prereq., 132. (1st sem., yearly.)

251-252. PALEONTOLOGY**(3-3) Sturgeon**

Introduction to fossils emphasizing the invertebrates, their morphology, classification, identification, and distribution. Index fossils emphasized. 2 lec., 2 lab., and field trips. Prereq., 112. (Yearly.)

282. GEOLOGIC FIELD METHODS**(3) Phelps**

Introduction to geologic field methods, especially in use of hand level, Brunton pocket transit, and plane table and telescopic alidade, and aerial photos. 1 lec. and field work. Prereq., 12 hrs., C.E. 10, and perm. (2nd sem., yearly.)

314. PRINCIPLES OF STRATIGRAPHY**(3) Sturgeon**

Processes and principles involved in the study of stratigraphy. 2 lec., 2 lab., and field trips. Prereq., 251-252, 343. (2nd sem., yearly.)

315. GEOLOGY OF OHIO**(2) Sturgeon**

Introduction to the geology of Ohio emphasizing physiography, stratigraphy, and economic geology. 2 lec., and field trips. Prereq., 112. (1st sem., 1958-59.)

333. OPTICAL CRYSTALLOGRAPHY (2) Aukland

The optical behavior of common rock-forming minerals by powder immersion techniques and the use of the petrographic microscope. 1 lec., 2 lab. Prereq., 132, physics 6, chemistry 2 or 4. (1st sem., 1958-59.)

342. PETROGRAPHIC METHODS (3) Aukland

An introduction to the identification of rocks by thin-sections and the petrographic microscope. A selection of 100 North American rocks is studied. 2 lec., 2 lab. Prereq., 132, 241, 333, and Chem. 2 or 4. (2nd sem., 1958-59.)

343. PRINCIPLES OF SEDIMENTATION (3) Aukland

Processes and principles involved in study of sediments. 2 lec., 2 lab. and field trips. Prereq., 112, 132, and 241. (2nd sem., yearly.)

353. MICROPALAEONTOLOGY (3) Sturgeon

Similar approach as in 251-252 but dealing with animal fossils commonly studied under the microscope. 1 lec., 4 lab., and field trips. Prereq., 251. (1st sem., 1958-59.)

362. STRUCTURAL GEOLOGY (3) Phelps

Study of the earth's architecture and of the diastrophic forces instrumental in the deformation of the earth's crust. 2 lec., 2 lab., and field trips. Prereq., 2, 112, Math. through college trigonometry. (2nd sem., yearly.)

371. ECONOMIC GEOLOGY—Metals (3) Phelps

Principles of metallic mineral deposition and a survey of the ore deposits of the world. 2 lec., 2 lab. Prereq., 112, 132, and 241. (1st sem., 1958-59.)

372. ECONOMIC GEOLOGY—Non-metals (3) Aukland

Principles of non-metallic mineral deposition and a survey of non-metallic and mineral fuel deposits of the world. 2 lec., 2 lab., and field trips. Prereq., 132, and 241. (2nd sem., 1958-59.)

383. GEOLOGIC STUDIES (1 to 4 a semester in any of the following) Staff

Supervised studies in fundamentals of geologic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs., and permission.

a. Glacial Geology and Physiography. *Aukland, Phelps.*

b. Mineralogy, Petrology, or Economic Geology. *Aukland, Phelps.*

c. Paleontology. *Sturgeon.*

d. Sedimentation and Stratigraphy. *Aukland, Phelps, Sturgeon.*

e. Structural Geology. *Phelps.*

385, 386. GEOLOGIC FIELD RECONNAISSANCE (1-5) Staff

Vacation period geologic field trips to selected areas in North America with pertinent conferences, readings, and accepted reports. Prereq., 15 hrs., and permission.

391, 392. SEMINAR IN GEOLOGY (1, 1) Staff

Selected topics. Required of all majors and graduate students. Prereq., 15 hrs., and permission. (Yearly.)

415. REGIONAL STRATIGRAPHY—EASTERN NORTH AMERICA (3) Sturgeon

Detailed consideration of stratigraphy east of the Great Plains. 2 lec., 2 lab. Prereq., 12 hrs. above 100 including 112 and 314. (1st sem., 1958-59.)

416. REGIONAL STRATIGRAPHY—WESTERN NORTH AMERICA

(3) Phelps, Sturgeon

Treatment similar to 415 but covering the Great Plains and cordilleran regions. 2 lec., 2 lab. Prereq., 12 hrs. above 100 including 112 and 314. (2nd sem., 1958-59.)

425. REGIONAL PHYSIOGRAPHY—EASTERN NORTH AMERICA (3) Aukland

Study of surface features and related significant geologic data of North America east of the Great Plains. 2 lec., 2 lab., and field trips. Prereq., 223, 314, 362. (1st sem., 1959-60.)

426. REGIONAL PHYSIOGRAPHY—WESTERN NORTH AMERICA (3) Phelps

Similar to 425 but covering the Great Plains and cordilleran regions. 2 lec., 2 lab. Prereq., 223, 314, 362. (2nd sem., 1959-60.)

493. RESEARCH IN GEOLOGY

(1 to 4) Staff

Maximum credit in course 6 hrs. Prereq., 18 hrs., and permission. (Yearly.)

495. THESIS

(1 to 6) Staff

Maximum credit in course 6 hrs. Prereq., permission.

GEOLOGY—See Geography and Geology

GERMAN

Associate Professors Krauss, Lederer
Assistant Professor Benson (chairman)
Instructor Johnson

The major requirement for the A.B. degree is a minimum of 20 hours above courses 1-2, including 209-210.

1-2. BEGINNING GERMAN

(4-4) Staff

Instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose. (Yearly.)

101-102. INTERMEDIATE GERMAN

(4-4) Staff

Reading of modern German literature with emphasis on conversation, translation, drill in idioms, and some grammar review. Prereq., 2 or 2 yrs. high school German. (Yearly.)

103. GERMAN FOR CHEMISTS

(2) Johnson

A course designed to familiarize chemistry students with the technical expressions found in a German textbook in chemistry. Prereq., 101. (2nd sem., yearly.)

108. GERMAN CONVERSATION

(3) Krauss

Practice in pronunciation, conversation, idioms. The materials used deal with everyday German life and customs. Prereq., 101 or 3 yrs. high school German. (2nd sem., yearly.)

209-210. GERMAN GRAMMAR AND COMPOSITION

(2-2) Lederer

Review of German grammar, drill in formal and free composition, and practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 4 yrs. high school German. (Yearly.)

301, 302. SURVEY OF GERMAN LITERATURE

(3, 3) Lederer

Prereq., 102, or 4 yrs. high school German. (1959-60.)

- 303, 304. READINGS FROM GERMAN LITERATURE (1 to 4, 1 to 4) Staff
Selected readings adapted to the needs of the class or the student. Maximum credit in each course, 8 hrs. Prereq., 102 or 4 yrs. high school German. (Given upon sufficient demand.)
- 311, 312. NINETEENTH CENTURY GERMAN DRAMA (3, 3) Lederer
A study of the German drama of the Nineteenth Century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German. (1958-59.)
313. CLASSICAL GERMAN DRAMA (3) Krauss
Plays of Lessing, Goethe, and Schiller are studied. Prereq., 102 or 4 yrs. high school German. (1st sem., 1958-59.)
314. GOETHE'S FAUST (3) Krauss
A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 313. (2nd sem., 1958-59.)
319. THE GERMAN SHORT STORY, 1800-1850 (2) Krauss
Reading of representative short stories from Romanticism to Poetic Realism with discussion of the literary movements. Prereq., 102 or 4 yrs. high school German. (1st sem., 1959-60.)
320. THE GERMAN SHORT STORY, 1850-1900 (2) Krauss
Reading of representative short stories of Poetic Realism with discussion of this literary movement. Prereq., 102 or 4 yrs. high school German. (2nd sem., 1959-60.)
321. CONTEMPORARY GERMAN SHORT STORY (2) Krauss
Reading of representative stories from Naturalism to the present time with discussion of the various literary movements. Prereq., 102 or 4 yrs. high school German. (1st sem., 1958-59.)
322. WAGNER'S POETICAL WORKS (2) Krauss
Richard Wagner's principal music dramas will be read and discussed for their literary content. Prereq., 102 or 4 yrs. high school German. (Given upon sufficient demand.)
323. GERMAN LYRICS AND BALLADS (2) Krauss
Reading and discussion of the German lyrics and ballads since Goethe. Prereq., 102 or 4 yrs. high school German. (1st sem., 1959-60.)
351. ADVANCED GERMAN GRAMMAR AND STYLE (2) Lederer
Grammatical analysis. Free composition and translation into German. Prereq., 210. (Given upon sufficient demand.)
371. ADVANCED GERMAN (1 to 4) Krauss, Lederer
Reading and research in German language and literature for advanced students. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
- 421-422. INTRODUCTION TO MIDDLE HIGH GERMAN (2-2) Lederer
Selected readings from medieval German lyrics and epics. Prereq., 12 hrs. beyond 102. (Given upon sufficient demand.)
495. THESIS (1 to 6) Staff
Prereq., permission.

GOVERNMENT

Associate Professors Collins,
Gusteson (chairman) Elsbree
Assistant Professors Everett, Fairfield
Instructor Habachy

The Department of Government seeks to meet the needs of those who desire to understand the organization and functions of government, to promote active participation in the duties of citizenship, to prepare students to enter government service, to provide background for pre-law students, and to train teachers of government.

The major requirement for the A.B. degree is 24 hours, including Govt. 1 and 2. Recommended electives include Economics 11-12 or 101-102; and History 101-102. Prelaw students should elect Accounting 75-76.

1, 2. AMERICAN GOVERNMENT (3,3) Collins, Gusteson, Elsbree, Everett

Govt. 1 includes the political and constitutional development, the organization and the functioning of the national government. Govt. 2 is concerned with the organization and functioning of state and local governments. Not open to juniors and seniors. (Yearly.)

101, 102. COMPARATIVE GOVERNMENT (3, 3) Elsbree

A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people. (Yearly.)

106. CURRENT POLITICAL AND SOCIAL PROBLEMS

(2) Collins, Elsbree, Fairfield

A consideration of current problems of a political, social, and economic nature, with particular emphasis on problems in the field of government. (Yearly.)

203. MUNICIPAL GOVERNMENT AND ADMINISTRATION (3) Collins

The creation and legal powers of cities; municipal elections and political bosses; an analysis of the administrative functions and problems of city government: personnel, finance, police, public utility regulation and ownership. Prereq., 6 hrs. (Yearly.)

216. INTERNATIONAL RELATIONS (3) Everett

Basic factors involved in world politics, including the modern state system, nationalism, militarism; the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., Govt. 1 and Hist. 2; or Hist. 1 and 2. (1st sem., yearly.)

217. CURRENT INTERNATIONAL PROBLEMS (3) Elsbree

The non-historical study of international problems arising from the conflict of national foreign policies, programs for national security, efforts toward world political and economic order, and contemporary policies of the Great Powers. Prereq., 6 hrs. government or history. (Yearly.)

301, 302. AMERICAN CONSTITUTIONAL LAW (2,2) Gusteson

Principles underlying American constitutional government as seen in leading cases, with special reference to interpretation of the Constitution of the United States. Prereq., 9 hrs. govt. or history. (Yearly.)

305. AMERICAN POLITICAL PARTIES (3) Gusteson

The origin and growth, the organization and methods of parties, the influence of economic and social conditions on party policy, the position and functions of the party system in democracies. Prereq., 9 hrs. (Yearly.)

308. LEGISLATURES AND LEGISLATIVE PROCESSES

(3) Gusteson

Major problems of representative government with respect to legislative assemblies. Analysis of structure, organization, and procedures; problems of representation; relationships between the legislature, the executive, the courts, and the people. Prereq., 9 hrs. (Yearly.)

309. LAW ENFORCEMENT

(3) Gusteson

Survey and analysis of the problems of the American policing, prosecutory, judicial, and correctional systems. Emphasis on both policy making and administration. Prereq., 9 hrs. (Yearly.)

323. INTERNATIONAL LAW AND ORGANIZATION

(3) Everett

Development and analysis of the principles of public law governing the relations of states, emphasizing current problems and developments. Analysis of the role of international organizations in the relations of states, maintaining international peace, developing international law. Prereq., Govt. 216 or 217. (2nd sem., yearly.)

331. FAR EASTERN GOVERNMENTS AND POLITICS

(3) Elsbree

A study of the governmental organization, political parties and foreign policies of China, Japan and selected countries of Southeast Asia. Political developments since 1945 will be emphasized. Prereq., 9 hrs. (Yearly.)

341. AMERICAN FOREIGN POLICY

(3) Collins

A consideration of the problems involved in the formulation and execution of foreign policy. Particular emphasis is given to the current problems of American policy. Prereq., 9 hrs. govt. or hist. (2nd sem., yearly.)

343. AMERICAN POLITICAL THOUGHT

(2) Fairfield

The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1865, and an analysis of recent trends in American political thought. Prereq., 9 hrs. govt. or hist. (Yearly.)

344. RECENT POLITICAL THOUGHT

(3) Elsbree

Recent political theories basic to political and social institutions: individualism, collectivism, fascism, and democracy; emphasis on the European version of democracy, totalitarianism of the communist and fascist states. Prereq., 9 hrs. or 3 hrs. govt. and 6 hrs. European history. (Yearly.)

348. PUBLIC ADMINISTRATION

(3) Collins

The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 9 hrs. (Yearly.)

349. ADMINISTRATIVE LAW

(3) Collins

Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 9 hrs. (Yearly.)

370. STUDIES IN GOVERNMENT

(1 to 3) Staff

Intensive study of special topics in the field of government and political science. Areas of study include comparative government, international affairs, political parties, political theory, public administration, public law. Maximum credit in course, 12 hrs. Prereq., 12 hrs., permission. (Each semester.)

391. SEMINAR IN GOVERNMENT (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs.
398. PROBLEMS IN GOVERNMENT (1 to 3) Staff
Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
401. RESEARCH IN GOVERNMENT (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Education and Athletics

HISTORY

Professors Cady (chairman), Gustavson
Associate Professors Morrison, C. H. Roberts, Stevens
Assistant Professors Mayes, Lobdell, Daniel
Instructors Thompson, Habachy

The major requirement for the A.B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 101, 102 (unless excused as the result of taking a placement test), and at least two courses above 300 selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. Government, economics, geography, and sociology are suggested as electives, with specific courses to be selected in consultation with the adviser.

1, 2. WESTERN CIVILIZATION IN MODERN TIMES (3,3) Staff

Hist. 1 covers the period from 1450 to 1815 and stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion, the French Revolution and Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization. Not open to juniors and seniors. (Each semester.)

101, 102. HISTORY OF THE UNITED STATES (3,3) Staff

A survey course covering the political, diplomatic, social, and economic development of American history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present. (Each semester.)

105. HISTORY OF OHIO (3) Morrison

A survey from earliest times to the present: social, economic, and political. (Each semester.)

110. THE OLD SOUTH (3) Morrison

A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations. (Each semester.)

111. THE NEW SOUTH (3) Morrison

Social, economic, and political life since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today. (Each semester.)

115. ANCIENT HISTORY

(3) Cady, Mayes

A survey of the origins of Western Civilization from prehistoric man to the disintegration of the Roman Empire, embracing a general study of the early civilizations of the Fertile Crescent and the Greco-Roman world. (2nd sem., yearly.)

120. MEDIEVAL HISTORY

(3) Mayes

A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance. (2nd sem., yearly.)

125, 126. ENGLISH HISTORY

(3, 3) Cady, Mayes

Designed for English majors and prelegal students as well as for the general student of history. The first semester covers the period to 1688 and stresses institutional aspects of medieval England and the social, political, and constitutional developments in the Tudor and Stuart periods. The second semester emphasizes cultural and economic developments, the British empire, constitutional and social reforms, and the impact of World Wars I and II. (Yearly.)

145. LATIN AMERICAN HISTORY

(3) Thompson

Emphasis will be placed on the national rather than the colonial period. (2nd sem., yearly.)

240. HISTORY OF CANADA

(2) Morrison

An introduction to Canada for Americans: a study of its resources, its founding and development under France and England, and its emergence as an important modern state. (Each semester.)

250. THE FAR EAST

(3) Cady

Geographical factors; political and cultural traditions of historic China and Japan; attempted adjustments to the impact of the West in the nineteenth century; collapse of Manchu China; Japanese imperialism culminating in World War II; the postwar Far Eastern scene. (1st sem., yearly.)

269. TEACHING OF THE SOCIAL STUDIES IN JUNIOR
AND SENIOR HIGH SCHOOLS

(2) Roberts

The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of curriculum reorganization, unit planning, materials of instruction, and evaluation. Prereq., 12 hrs. social sciences. (Each semester.)

301. COLONIAL AMERICA

(3) Lobdell

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs. (1st sem., yearly.)

302. THE REVOLUTIONARY ERA

(3) Daniel

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs. (2nd sem., yearly.)

310. SECTIONAL CONTROVERSY, 1820-1850

(2) Stevens

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs. (1st sem., yearly.)

312. THE CIVIL WAR AND RECONSTRUCTION (3) Stevens

The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South, general cultural and economic development. Prereq., 6 hrs. (2nd sem., yearly.)

316. HISTORY OF THE INDUSTRIAL REVOLUTION IN THE UNITED STATES, 1850-1941 (3) Daniel

Origins of the factory system in America, the impact of the Civil War, rise of heavy industry, problems of financing and control, influence of the progressive era, resurgence of big business during wartime and the twenties, industrial problems of the depression period. Prereq., 6 hrs., including 102. (2nd sem., 1958-59.)

321. THE UNITED STATES IN RECENT TIMES, 1898-1928 (3) Lobdell

American imperialism, the Progressive Era, World War I, retreat from world responsibility, and the post-war prosperity period. Prereq., 6 hrs. (1st sem., yearly.)

322. THE UNITED STATES IN RECENT TIMES, SINCE 1928 (3) Lobdell

The great depression, the New Deal, abandonment of isolation, World War II, post-war crises and problems. Prereq., 6 hrs. (2nd sem., yearly.)

324. HISTORY OF AMERICAN DIPLOMACY (3) Thompson

A survey of the development of the foreign policy of the United States, emphasizing relations with Latin America, the Far East, and Europe to World War II. Prereq., 6 hrs. (1st sem., yearly.)

325. THE WESTWARD MOVEMENT (3) Daniel, Stevens

Expansion from the Atlantic to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs. (2nd sem., yearly.)

331. SOCIAL HISTORY OF THE UNITED STATES (3) Daniel

The story of immigration, race, the family, class structure, religion, leisure and "the American way of life"; problems of disease, poverty, crime, and urbanization. Prereq., 6 hrs. (1st sem., yearly.)

332. CULTURAL HISTORY OF THE UNITED STATES (3) Daniel

The development of American art, architecture, music, forms of literary expression, science, and educational means for the dissemination of culture. Prereq., 6 hrs. (2nd sem., yearly.)

352. INDIA AND SOUTHEAST ASIA IN MODERN TIMES (3) Cady

Historic civilizations of India and Southeast Asia; the impact of Western colonial rule on the peoples of the area; readjustment following the gradual liquidation of colonial empires. Prereq., 6 hrs. (2nd sem., yearly.)

361. THE RENAISSANCE AND THE REFORMATION (3) Mayes

A study of Europe in transition from the 14th to the 16th centuries, with special emphasis on Italy. The course will examine the rise of the national states, the commercial revolution, humanism, art and architecture, the later medieval church, the rise of Protestantism, and the Catholic Reformation. Prereq., 6 hrs. (2nd sem., 1959-60.)

363. TUDOR AND STUART ENGLAND

(3) Mayes

England in the 16th and 17th centuries: a study of Tudor absolutism, the English Reformation, the constitutional crisis (parliament versus the Crown) of the Stuart period, the republican experiment under Cromwell, the beginnings of empire, and the major cultural and economic developments. Prereq., 6 hrs. (2nd sem., 1958-59.)

365. FRENCH REVOLUTION

(3) Gustavson

An intensive study of such historical factors as causation, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Prereq., 9 hrs. (2nd sem., yearly.)

370. EUROPE BETWEEN WORLD WARS

(3) Gustavson

Fascism, communism, and the twenty-year armistice between 1919 and 1939. Prereq., 6 hrs. (1st sem., 1958-59.)

372. CONTEMPORARY EUROPE

(3) Gustavson

Problems of peace and war in Europe since 1939. Prereq., 6 hrs. (2nd sem., yearly.)

375. HISTORY OF RUSSIA

(3) Gustavson

A survey from the earliest times to the present. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs. (1st sem., yearly.)

378. THE HISTORY OF MODERN GERMANY

(3) Gustavson

A survey of Germany and central Europe since the Age of Napoleon. Prereq., 6 hrs. (2nd sem., yearly.)

385. IMPERIALISM AND WORLD POLITICS

(3) Cady

Types of imperialism; empire building during the nineteenth and twentieth centuries by Russia, Japan, United States, Great Britain, France, Germany, and Italy. Prereq., 6 hrs. (1st sem., yearly.)

390. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS

(2 or 3 as scheduled) Staff

Typical historians from the time of Herodotus and readings from their masterpieces to illustrate schools of interpretation, philosophies of history and the development of historical writing. Prereq., 12 hrs. (2nd sem., 1959-60.)

392. PROBLEMS IN HISTORY

(1 to 3) Staff

Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission. Maximum credit in course, 6 hrs. (Each semester.)

395. HISTORIOGRAPHY AND METHODOLOGY

(3) Staff

An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs. (1st sem., yearly.)

398. SEMINAR IN HISTORY

(1 to 3) Staff

Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs, and permission. (2nd sem., yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission.

HOME ECONOMICS

Professor V. M. Roberts (director)

Associate Professor, Bane

Assistant Professors Macauley, Davis, Lewis,

Nehls, Cowan, Sellers

Instructors Makroczy, Lowe, Price, Rogers

Part-Time Instructor Murray

The School of Home Economics offers work in the following fields: (1) Child Development and Family Life, (2) Foods and Nutrition, (3) Home Economics Education, (4) Housing and Home Management, (5) Institution Administration and (6) Textiles and Clothing.

Basic courses in each area of home economics are set up with emphasis directed toward home and family living. Students who are majoring in other departments, but desire training directed toward home and family living may elect any of the basic courses (see "Core Courses," page 91).

Students majoring in home economics take the basic courses in home economics and courses in general education during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated on page 91.

HOME ECONOMICS**51. ORIENTATION IN HOME ECONOMICS**

(2) Roberts assisted by specialists in each field

The value of home economics for home and family life; the opportunities for careers in the various fields of home economics. Vocational testing, guidance, and counseling.

161. HOME NURSING AND FAMILY HEALTH

(2) Murray

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

360. WORKSHOPS IN HOME ECONOMICS

(1-2) Staff

Special workshops to aid the home economics teacher will be scheduled during summer sessions. Maximum credit toward graduate degree—6 hours. Prereq., 268 or equivalent, teaching experience or qualified for certification to teach Home Economics. The areas of study include:

- a. Home Economics Education
- b. Clothing and Textiles
- c. Foods and Nutrition
- d. Child Development and Family Life
- e. Consumer Education
- f. Home Furnishings
- g. Home Management
- h. Household Equipment
- i. School Lunch Management

381. RESEARCH IN HOME ECONOMICS

(1 to 3) Staff

A project course in which the student carries on independent investigations or problems under the guidance of the instructor. Maximum credit in course, 6 hrs. Prereq., 20 hrs. and permission.

- 390a, b, c, d, e. FIELD WORK IN HOME ECONOMICS (2 to 4) Staff
- (a) Home Economics Extension
 - (b) Home Service Work With Public Utilities
 - (c) Institution Management
 - (d) Retail Merchandising
 - (e) Radio-TV

Through cooperation with business organizations, department stores, radio-TV stations, and the Home Economics Extension Department opportunities are given for on-the-job training and practical experience. The faculty adviser serves as coordinator of the work established with these outside agencies. Prereq., 18 hrs., permission, and senior rank.

391. SEMINAR IN HOME ECONOMICS (1 or 2) Staff
Prereq., 18 hrs., and permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

CHILD DEVELOPMENT AND FAMILY LIFE

- 5.6. CHILD DEVELOPMENT AND FAMILY LIVING (3,3) Nehls, Price

H. Ec. 5 deals with the physical, emotional, social, and intellectual development of the child from conception through adolescence. The home environment, the care, and the guidance which foster the total development of the child will be stressed.

H. Ec. 6 stresses the problems confronting young people in establishing a family. Attention is given to the reinforcement the family may secure through interactions with the church, the school, and the community. Not open to those who have had H. R. 301 or Soc. 260.

172. ADVANCED CHILD DEVELOPMENT (2) Nehls

Emphasis on the development of the preschool child as approached through the cooperation of the parents, the teachers, and the children in the Nursery School. 1 lec. 3 hrs. participation in Nursery School. Prereq., 5, or 6 hrs. psychology.

- 375a, b. READINGS IN CHILD DEVELOPMENT AND FAMILY LIVING (2 or 3) Nehls, Price

- a. Child Development
- b. Family Living

An intensive study through library research of a phase of child development or a problem in family living. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 6 and 172, or 9 hrs. psychology and/or sociology, permission.

377. TECHNIQUES WITH YOUNG CHILDREN (3) Nehls, Price

Techniques of guidance of nursery school children, with emphasis on emotional and social development of the child and the effect of family attitudes on behavior. 2 lec., and 3 hrs. at Nursery School. Prereq., 6 and 172.

378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN (Not offered in 1959-60) (3) Price

The organization and administration of Nursery School. Prereq., 6 and 172.

379a, b. GUIDANCE OF NURSERY SCHOOL CHILDREN

(2 to 6) Nehls, Price

(a) Teaching and Guidance in the Nursery School. (4 hrs.)

(b) Techniques in Child Feeding. (2 hrs.)

Teaching and guidance in the Nursery School with participation in all phases of the Nursery School program. Prereq., 377 or 6 hrs. psychology and permission, or Education 272.

477a, b. SPECIAL STUDIES IN FAMILY RELATIONSHIPS OR CHILD DEVELOPMENT

(2 to 6) Nehls

(a) Family Relationships. (2 or 3 hrs.)

(b) Child Development. (2 or 3 hrs.)

An intensive study of a problem in family relationships or child development. Prereq., 6 and 172 or 12 hrs. psychology, sociology and/or human relations.

FOODS AND NUTRITION

1-2. FOODS, NUTRITION AND MEAL PLANNING (3-3) Lewis, Lowe

Selection, storage, preparation, and serving of food. Nutrition and all aspects of food management in the home are considered. 1 lec., 1 discussion, 4 lab.

125. FAMILY NUTRITION (3) Lowe

The relation of nutrition to growth, development, and maintenance of health in all age groups. 2 lec. and 2 lab. Prereq., 2.

320. CREATIVE COOKERY AND MEAL MANAGEMENT

(Summer sessions only)

(2 to 4) Roberts

An advanced course emphasizing the creative, scientific, and artistic phases of food preparation and meal management. Prereq., 9 hrs. foods and nutrition and permission.

322. EXPERIMENTAL COOKERY (Not offered in 1959-60) (3) Lewis

Group and individual experiments on selected problems of food preparation. 1 lec. and 4 lab. Prereq., 2 and Chem. 113.

323. FOOD PRESERVATION (Not offered in 1958-59) (2) Lewis

Methods of home food preservation and factors affecting palatability and retention of nutrients in processed food. 1 lec. and 2 lab. Prereq., 2.

326. ADVANCED NUTRITION (3) Lowe, Roberts

Principles of nutrition as applied to the feeding of individuals and families under varying conditions. 2 lec. and 2 lab. Prereq., 125, Chem. 113 and Zool. 235.

328. RECENT DEVELOPMENTS IN FOODS AND NUTRITION

(Summer sessions only)

(3) Roberts

Reports, discussions, and reviews of scientific literature. Some laboratory projects may be included. Prereq., 2, and 125 or equivalent.

329. NUTRITION IN DISEASE (2) Macauley, Lowe

Application of principles of nutrition to the feeding of individuals and the use of diet in prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 3 lab. Prereq., 125, 326.

340. PROBLEMS IN FOODS AND NUTRITION (2 or 3) Macauley, Lewis, Lowe

A comprehensive study of nutrition, experimental foods, food or nutrition analysis, or institution management. Maximum credit in course, 6 hrs. Prereq., 9 hrs. foods and nutrition and permission.

433. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION

(2 or 3) Lewis

An intensive study of a phase of food chemistry or nutrition. Maximum credit in course, 6 hrs. Prereq., 326.

HOME ECONOMICS EDUCATION**155. HOME ECONOMICS FOR THE ELEMENTARY SCHOOL** (2) Sellers

Problems related to home economics at the elementary level. Emphasis on the development of good food habits and nutritional status of children. Three hours each week for class discussion, and laboratory work.

268. TEACHING OF HOME ECONOMICS (3) Sellers

Organization, methods, classroom procedures, evaluation, and teaching aids in family life education for secondary schools. Prereq., concurrently with Ed. 281, permission.

269. TEACHING OF FOODS AND NUTRITION (3) Lewis, Lowe

Organization of materials and methods of presenting principles of food preparation and nutrition. For majors in foods and nutrition. 1 lec. and 4 lab. Prereq., 2, 125.

350. PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(1 to 3) Sellers

Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 268.

367. VOCATIONAL HOME ECONOMICS (Summer sessions only) (3) Sellers

History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268 or teaching experience in home economics.

368. DEMONSTRATION TECHNIQUES (2) Lewis

Practical experience in the demonstration of foods, equipment or clothing. Planned for those going into secondary education or consumer service positions. 4 lab. Prereq., 12 hrs.

369. HOME ECONOMICS IN ADULT EDUCATION (3) Sellers

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for family living. Prereq., 18 hrs. home economics.

450. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(2 or 3) Sellers

Intensive study of some phase of home economics education. Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

HOUSING AND HOME MANAGEMENT**7. THE HOME AND ITS FURNISHINGS** (2) Makroczy

A practical and aesthetic study in house furnishings including basic art qualities, styles of houses and interiors; analysis of modern floor plans; selection and arrangement of furniture and accessories. 1 lec. and 2 lab.

108. CONSUMER PROBLEMS OF THE FAMILY (2) Rogers

Education of the household buyer by practical application of market devices as aids to the consumer buyer; retailing activities as they affect the role of the consumer. 1 lec. and 2 lab.

330. WORKSHOP IN HOME FURNISHINGS (3) Makroczy

Laboratory problems in advanced techniques in home furnishings, including upholstering, slip-covering, refinishing furniture, and making draperies. 1 lec. and 4 lab. Prereq., 7 and 4; for non-majors, 7 and 4 hrs. art and permission.

331. ECONOMICS OF FURNISHINGS (Offered as needed) (2) Cowan

A study of the production, distribution, and qualities of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 330; for non-majors, 6 hrs. economics.

334. HOUSEHOLD EQUIPMENT (3) Macauley

Household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. 1 lec. and 4 lab. Prereq., 2 and 108.

351. HOME MANAGEMENT (2) Rogers

Economic use of time, energy, and money in the successful functioning of the home from the viewpoint of the satisfaction of members of the family. Prereq., 2 and 108, or 6 hrs. sociology.

353. HOME MANAGEMENT LABORATORY (3) Rogers

Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board. Prereq., 351 or with 351, and permission.

358. PROBLEMS IN FAMILY ECONOMICS (1 to 3) Makroczy

Individual investigation of family income, expenditures, and standards of living. Minimum standards of living are emphasized; planned for majors in social work. Prereq., 351 or 6 hrs. sociology and permission.

452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT AND HOME MANAGEMENT (2 or 3) Macauley, Makroczy

An intensive study of the efficient management of time, energy, or money in the home. Maximum credit in course, 6 hrs. Prereq., 351, 353 and 334.

INSTITUTION ADMINISTRATION

327. QUANTITY COOKERY (3) Macauley

Preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 2.

342. INSTITUTION MARKETING AND FOOD COST CONTROL (2) Macauley

Studies in production, distribution and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in food service. 1 lec. and 3 lab. Prereq., 327.

343. INSTITUTION EQUIPMENT AND FURNISHINGS (2) Macauley

Kitchen planning and selection of equipment including materials, construction, installation, operation, care, and relative cost; floor plans and specifications. 1 lec. and 3 lab. Prereq., 327.

348. INSTITUTION MANAGEMENT (3) Macauley

Principles of organization and administration which apply to food units in school lunch rooms, and public and private institutions. Administration of labor; standards of work; cost control. Prereq., 327 and Acct. 75.

TEXTILES AND CLOTHING

3-4. CLOTHING SELECTION AND CONSTRUCTION

(2-2) Bane, Cowan Makroczy

A basic course in clothing construction with discussions on color, line, personal attractiveness, fashion, and wardrobe planning. 1 lec. and 3 lab.

110. TEXTILES

(2) Cowan

A basic textile course involving the study of textile fibers and the construction, processing, use and care of fabrics. 1 lec. and 3 lab.

212-213. FLAT PATTERN DESIGN

(2-2) Bane

Dress pattern making on advanced fitting problems and the execution of original designs. 1 lec. and 3 lab. Prereq., 4 and 110 or Art 137 and permission.

300. NEW DEVELOPMENTS IN TEXTILES (Summer sessions only)

(2) Cowan

New developments in textile fibers with special emphasis on new fibers, their characteristics, uses and care. Prereq., 9 hrs. clothing and textiles.

301. TECHNIQUES IN TEACHING CLOTHING CONSTRUCTION

(Summer sessions only)

(1) Bane

Special problems in sizing, alteration, fitting and construction as applied to teaching the high school student. Prereq., 316 or equivalent, teaching experience or certification to teach home economics.

302. TECHNIQUES IN TEACHING CLOTHING SELECTION

(Summer sessions only)

(1) Bane

Methods of presenting clothing selection on the high school level with emphasis on psychological and economic aspects of clothing. Consumer and market trends to be included. Prereq., 316 or equivalent, teaching experience or certification to teach home economics.

310. TECHNIQUES IN CLOTHING DESIGN (Summer sessions only)

(2) Bane

An advanced course in clothing that offers opportunity for creative expression and for an understanding of patterns through the medium of flat pattern design. 1 lec. and 3 lab. Prereq., 4 and 110.

313. CLOTHING AND TEXTILES FOR THE CONSUMER

(Not offered in 1958-59)

(2) Cowan

Problems presented to the buyer and the consumer in purchasing textile products such as lingerie, home-furnishing fabrics, ready-to-wear, and accessories. Prereq., 9 hrs. clothing and textiles, Ec. 11 or 101.

315. HISTORY OF COSTUME AND TEXTILES

(Not offered in 1959-60)

(2) Cowan

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 4 and 110.

316. TAILORING

(3) Bane

Tailoring of suits or coats. Emphasis placed on professional techniques, advanced fitting problems, and construction of high fashion garments. 6 lab. and demonstration. Prereq., 4 and 110.

318. ADVANCED TEXTILES

(3) Cowan

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 4 and 110, Chem. 2.

319a. b. SPECIAL STUDIES IN TEXTILES OR CLOTHING (3 to 6) Bane, Cowan

Intensive study of one of more problems related to textiles or clothing. Maximum credit in each area, 6 hrs.; total in course, 12 hrs. Prereq., 12 hrs. clothing and textiles and permission.

(a) Clothing. (3 hrs.)

(b) Textiles. (3 hrs.)

HUMAN RELATIONS

Professors A. C. Anderson, Patrick
Associate Professor B. R. Black (chairman)
Instructors E. I. Anderson, J. Dickinson

Courses in the department are designed to contribute to the general education of students in any field. Majors in any area who plan to prepare for personnel work in business and industry, social work and administration, government agencies, or education are invited to confer with members of the staff about selection of courses in this and related departments.

291-292. PRACTICUM IN STUDENT PERSONNEL

(3-3) E. I. Anderson, Dickinson

A survey of the problems of orientation of freshmen to college. Supervised experience including observation, discussion, and practice in personnel and guidance. 1 lec. and a minimum of 4 lab. Prereq., permission. (Yearly)

301. MARRIAGE

(3) Patrick and Associates Eggers, McQuate, Organ
Schmidt, Rowles

A clinical approach to the problems of dating, courtship, marriage, parenthood, and childhood adjustments in the light of scientific and philosophical thinking of today. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social sciences, or 6 hrs. social sciences and 6 hrs. biology. (2nd sem., yearly.)

303-304. HUMAN RELATIONS

(3-3) A. C. Anderson, Black

A course taught by the case method, designed for students interested in studying the habits and skills of analysis, judgment, and action important to people in all walks of life. Prereq., junior, senior, or graduate rank. (303, each semester; 304, 2nd sem., yearly.)

325. FIELD WORK OR RESEARCH

(1 to 3) Staff

An opportunity for individual work in a specialized area of human relations; field work in human relations; or supervised work for a specified time in the offices of admissions, registrar, O. U. Center, housing, and University College; or research under the direction of the staff. Maximum credit in course, 5 hrs. Prereq., 303 and permission. (Each semester.)

491. SEMINAR IN HUMAN RELATIONS

(3) Staff

Prereq., 303 or 304, and permission. (1st sem., yearly.)

493, 494. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION

(3, 3) Black

Designed for those specializing in student personnel work. Emphasis on philosophy and current trends in student personnel work and administrative procedures for effective coordination of services within a student personnel program. Prereq., 18 hrs. social sciences and permission. (Yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission.

HUMANITIES—See General Studies**INDUSTRIAL ARTS**Associate Professors Kinison, Paige,
Perry (chairman)

Assistant Professor Calvin

Instructors Adams, Armbruster, Shull, Squibb, Weber

The requirements for an industrial arts major in the program leading to a Bachelor of Science in Education are outlined on page 134. The program outline for the Bachelor of Science in Industrial Technology is described on page 95.

1. GENERAL WOODWORKING I (3) Adams, Paige

A study of the uses of common hard and soft woods hand tools, and machinery, joints and other methods of wood fabrication, glues, finishes, and the planning of projects. 1 lec. and 4 lab.

2. GENERAL WOODWORKING II (3) Paige

A study of the operation of common woodworking machinery, cabinet construction, decorative processes, veneering and house framing. 1 lec. and 4 lab. Prereq., 1.

5. DRIVER EDUCATION (1) Weber

A beginning course in driving. Laboratory practice in dual-control car. Study includes the car and current problems of traffic. Credit not counted toward degree. 1 lec. and 1 lab. Fee, \$15.

6. WOOD TURNING (2) Paige

A laboratory course in the designing and making of objects on the wood turning lathe. It includes spindle, faceplate, chuck, mandrel turning, and methods of finishing on the wood lathe. 4 lab.

8. ORIENTATION IN INDUSTRIAL ARTS (2) Staff

A course of brief experiences with materials, tools and processes, planning and finishing. Designed to help the student consider teaching industrial arts as a profession. 4 lab.

9. CRAFT AND HOBBY WORK (2) Perry

A laboratory course in which any student of the University may learn to work with wood, metal, leather, reed, plastics, textiles or other available materials. 4 lab.

11. DUPLICATING (3) Weber

Study and practice in the areas of block printing, etching, lithography, photography, silk screening, and use of the mimeograph and spirit duplicator. 1 lec. 4 lab.

13. GENERAL COLD METALS (3) Adams, Calvin

A study of the materials and the fundamental operations involving hand and machine work in sheet metal, bench metal and machine shop. 1 lec. and 4 lab.

14. GENERAL HOT METALS (3) Ambruster, Squibb

This course includes the basic operations in forge, foundry, and welding practice. Related information, both technical and general, is included as part of each phase of laboratory work. 1 lec. and 4 lab.

19. AUTOMOTIVE THEORY AND REPAIR (3) Shull

A study of the automobile with emphasis on servicing and overhauling the engine and chassis. 1 lec. and 4 lab.

51. FARM SHOP (3) Shull

A study of woodworking, concrete working and electricity as applied to building and repair work on the farm. 1 lec. and 4 lab.

102. PRACTICAL CARPENTRY (3) Paige

The fundamental processes of carpentry which are involved in house construction, including staking out, concrete forms, framing, flooring, sheathing, insulating, interior finishing, framing of windows and the framing and hanging of doors. Prereq., 1. 6 lab.

104. FURNITURE UPHOLSTERY (2) Paige

A study of the tools, equipment, and materials used in the construction and repair of spring seats, padded seats, and overstuffed furniture. Practice will include both old and new construction. 4 lab.

105. MATERIALS AND FINISHES (3) Paige

A study of the different materials and finishes that are generally used in the industrial arts laboratories: their sources, manufacture, and application.

106. ADVANCED WORK IN CRAFTS (2) Perry

Emphasis will be placed upon skill development in some craft area chosen by the student in consultation with the instructor. Evidence of original design and specialized skill development, as applied to the chosen materials, is a requirement for this course. 4 lab. Prereq., 9 or permission.

107. SHEET METAL (2) Adams

The laboratory work consists of laying out, cutting, forming, joining, decorating and finishing sheet metals. Proper use and maintenance of hand tools and machine tools are emphasized. 4 lab. Prereq., 13 or permission.

109. CABINETMAKING (3) Paige

The design and construction of various kinds of cabinets. Includes individually-designed projects and production methods. 6 lab. Prereq., 2.

115. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL (1 to 2) Perry

The operation and use of common hand tools to form wood, metal and other materials. Planning and construction of articles commonly associated with elementary school classroom work. 1 lec. and 1 lab. Prereq., elementary teaching majors only.

116. CONSTRUCTIVE DESIGN (2) Paige

A study of the principles of design and their application to industrial arts projects, and of the identification of the periods of furniture design. 4 lab.

117. SHOP AND MACHINE MAINTENANCE (2 to 4) Shull

Practice in common jobs necessary to maintain tools and machines in industrial arts school laboratories. This includes sharpening and adjustment of both hand and power tools, electric motor hook-up and repair. 4 to 8 lab. Prereq., permission.

121. PATTERN MAKING

(1) Adams

A laboratory course which includes a study of tools, machinery, pattern, layout, joinery, and special types of construction of wood patterns. 2 lab.

124. MACHINE SHOP

(2) Calvin

The shaping of metal by the use of the engine lathe, the shaper, the milling machine, and including the care and upkeep of these machines. 4 lab. Prereq., 13 or permission.

128. ADVANCED METAL WORK

(3) Calvin

Continuation of technical operations on metalworking machinery, theory of inspection, product control, gauging and measuring devices. Laboratory work includes operations in both cold and hot metal areas. 6 lab. Prereq., permission.

129. WELDING

(2) Squibb

Application of principles and techniques of oxy-acetylene and arc fusion welding of ferrous and nonferrous metals; brazing; selection, care and use of equipment and supplies; welding metallurgy. 4 lab. Prereq., 14 or permission.

131. INTRODUCTION TO CERAMICS

(2) Armbruster

A study of the processes of forming pottery, tile and brick; of concrete work, including the building of forms, and the use of other stone setting materials. 1 lec. and 3 lab. Prereq., 2 or permission.

133. PRACTICAL ELECTRICITY

(3) Perry

A study of sources, principles, and measurements of electricity. Planning and construction of devices to illustrate electrical effects. 1 lec. and 4 lab.

134. PRACTICAL POWER AND TRANSPORTATION

(3) Shull

Experimentation, project construction and study of air, steam, water, electricity and internal combustion of gases as sources of power, and their effects on industry and transportation. 1 lec. and 4 lab.

141. PRINTING

(3) Kinison

This course consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen presswork. 1 lec. and 4 lab.

142. PRINTING

(3) Kinison

The course deals with papers and paper making, ink, care of supplies, designing and setting display composition, the making of stereotype mats and castings, and platen presswork. 1 lec. and 4 lab. Prereq., 141.

144. PHOTOLITHOGRAPHY

(3) Kinison

Practice in the making of off-set plates of several kinds and operation of the off-set press. Plate making involves the use of copying camera and the whirler. 6 lab.

147. ADVANCED PRINTING

(3) Kinison

Deals with the problems that are encountered in a commercial printing shop. 6 lab. Prereq., 142.

199. ADMINISTRATION OF DRIVER EDUCATION (2 or 3) Weber

For prospective driving teachers. Certification by the American Automobile Association upon completion. Certification for teaching in the high schools of Ohio depends upon certification in at least one other high school subject. 2 lec. and 2 lab. Prereq., Psych., Psych. 5 or permission.

201. ADVANCED PRINCIPLES OF DRIVER EDUCATION (3) Perry

A course designed to aid teachers in extending their professional development through group study and planning in the area of driver education. Class activity will be guided by problems found in present programs. Emphasis will be upon improvement of time utilization and student motivation. Prereq., 199 or permission.

203. INDUSTRIAL ELECTRONICS (3) Armbruster

Fundamental theory and practice in the use and care of electronic apparatus commonly employed for communication and production control in industry. 1 lec. 4 lab. Prereq., 133.

260. TEACHING OF INDUSTRIAL ARTS (3) Calvin

A study of the techniques used in teaching industrial arts. Emphasis on organizing and planning, courses of study, methods of presenting technical and related information, evaluating student progress and shop management. Prereq., 12 hrs.

299. PROBLEMS IN SAFETY EDUCATION (2) Weber

A study of current practices in the field of safety education. Special emphasis may be given to applications in the fields of transportation, manufacturing, and driver education.

302. DEVELOPMENT OF TEACHING AIDS FOR INDUSTRIAL EDUCATION (2) Weber

Emphasis is on analysis of teaching situations to determine which can be enhanced through the use of teaching aids. Laboratory activity consists of development and construction of instructional aids designed for specific purposes. A term paper is required for graduate credit. 4 lab. Prereq., teaching experience or concurrently with practice teaching.

309. ADMINISTRATION OF THE GENERAL SHOP (3) Paige

Supervision and administration as related to the general shop. Types of organization, laboratory planning, equipment selection, tool storage, and accounting systems are topics studied. Prereq., 12 hrs.

326. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS (3) Calvin

A study of the history of industrial arts from its earliest beginnings down to the present, including the Smith-Hughes Law and the George-Deen Act and their administration in Ohio.

328. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (1 to 3) Staff

A research course where individual problems are selected for investigation, solution, and reporting. Maximum credit in course, 3 hrs. Prereq., senior rank.

399. WORKSHOP IN DRIVER EDUCATION (Summer sessions only) (1) Perry

A course designed for teachers of driver education. Class activity will be guided by problems found in present programs. Emphasis will be placed on improvement of time utilization and student motivation. Prereq., certification in driver education.

450a, b, c, d. ADVANCED WORK IN WOOD, METAL,
PRINTING OR POWER

(2) Staff

Advanced laboratory work in the wood, metal, printing or power areas along with a study of the industrial practices in the field selected. The course may be repeated in different areas for a maximum credit of 6 hrs. 4 lab. Prereq., (a) Wood, 1, 2; (b) Metal, 13, 14; (c) Printing, 11, 141; (d) Power, 133, 134.

457. CURRICULUM BUILDING IN INDUSTRIAL ARTS

(3) Staff

A study of the building of a complete industrial arts curriculum and of the construction of the several courses that make up the curriculum. Prereq., 16 hrs.

471. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION

(3) Staff

This course is a study of the philosophy of industrial education, of the Federal laws pertaining to vocational education and of the problems and practices of administration and supervision of vocational and non-vocational industrial education in the public schools. Prereq., permission.

481. RESEARCH IN INDUSTRIAL ARTS

(1 to 3) Staff

Students are directed in the investigation of selected phases of the theory and practice of industrial education. A written report of this investigation is to be presented by each student to the departmental graduate committee. Maximum credit in course, 6 hrs. Prereq., Ed. 488.

491. SEMINAR IN INDUSTRIAL ARTS EDUCATION

(1 to 3) Staff

Reports on recent books and magazine articles, and reports based upon original research will be given and followed by group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

495. THESIS

(1 to 6) Staff

Prereq., permission.

ITALIAN—See Romance Languages

JOURNALISM

Professor Hortin (director)
Associate Professors Turnbull, Baird, Humphreys
Assistant Professor Baxter
Instructors Nichols, Reamer, Gilbert

1. ORIENTATION IN JOURNALISM

(2) Hortin, Staff

Analysis of the forms and purposes of journalistic communications—reporting, editing, management, advertising, radio and television, news, public relations, free lance and feature writing, photo-journalism; opportunities for careers in the various sequences; guidance and counseling; survey of facilities.

105. HISTORY OF AMERICAN JOURNALISM

(3) Baird

A study of the development of newspaper, magazine, and radio journalism from the colonial period to the present, including political, economic, and mechanical aspects. Prereq., Eng. 4.

107. NEWSPAPER REPORTING

(3) Baird, Baxter

Instruction in methods of gathering material and writing news reports, interviews, reports of speeches, follow-ups and re-writes, human interest stories, and specialized news. Practice work covering assignments and preparing copy. Prereq., Eng. 4, and Sec. St. 15 or the ability to operate a typewriter efficiently.

111. REPORTING PRACTICE

(1 to 6) Reamer

Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

140. THE COMMUNITY NEWSPAPER

(2) Staff

The course stresses editorial and business phases of weeklies and small dailies. Problems include editing, editorial writing, and rural correspondence; school, church, and business life; circulation, advertising, job printing, and mechanical equipment. Prereq., Eng. 4.

146. TYPOGRAPHY, MECHANICS, AND MAKEUP

(3) Baird, Turnbull

Make-up in type of newspaper pages, following introduction to hand composition. Study of principles of good make-up of ads and news, including correct choice of type. Mechanics of printing reproduction studied.

217. NEWSPAPER AND MAGAZINE EDITING

(3) Humphreys

Principles and practices of copyreading, headline writing, illustration, and make-up for newspapers, tabloids, and magazines. Other phases: picture editing, desk problems, wire and syndicate material. Prereq., 107.

221. EDITING PRACTICE

(1 to 6) Gilbert

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 217 or permission.

230. REVIEWING AND CRITICISM

(2) Humphreys

A study and analysis of books, art, drama, music, photography, radio, television, and other public presentations. Students write reviews and criticisms after studying outstanding examples in recognized publications. Prereq., 107, Eng. 4.

247. NEWSPAPER ADVERTISING AND LAYOUT

(3) Nichols, Turnbull

A study of the operation of the advertising department from the viewpoint of the advertising manager. Prereq., Advt. 155.

251. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3) Humphreys

Contributions in all phases of modern society are discussed by university faculty members and other authorities. Students are required to do reference reading and to write news reports of the discussions. Prereq., 107 junior or senior rank.

277. NEWSPAPER ADVERTISING PRACTICE

(1 to 6) Nichols

Laboratory work in preparing copy for local display advertisers of *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

280. RADIO-TV NEWS WRITING AND EDITING

(2) Baxter

The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 107, Radio 79.

285. RADIO-TV NEWS PRACTICE**(2 or 3) Baxter**

A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over WOUB and WOUI, AM and FM. Maximum credit in course, 6 hrs. Prereq., 280.

303. TELEVISION NEWS PRODUCTION**(3) Baxter**

The preparation and production of television news. Experiments in visual presentation of news and discussion of the organization and policies of the television newsroom. Prereq., 280, Photog. 133, and permission.

306. NEWSPAPER AND COMMUNICATIONS LAW**(2) Hortin**

Principles and case studies of the law of the press with emphasis on constitutional guarantees, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217 and senior rank.

307. REPORTING OF PUBLIC AFFAIRS**(2) Baird, Hortin**

Includes a study of governmental, civic, and business organizations: courts, legal procedure, city and county government, state and national organizations, banks, political parties, and community activities. Prereq., 111, or permission, and senior rank in journalism.

309. RADIO-TV ADVERTISING AND MANAGEMENT**(3) Turnbull**

A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and TV station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.

322. FEATURE AND MAGAZINE WRITING**(3) Baird, Hortin**

A study of newspaper, magazine, and pictorial features, followed by practice in writing and marketing of various types. The course includes finding subjects, securing photographs, writing articles and surveying markets. Prereq., 107, or 12 hrs. of English, or permission.

323. ADVANCED FEATURE AND MAGAZINE WRITING**(2) Baird, Hortin**

Students are permitted wide range in selecting feature subjects. High grade writing is stressed with definite idea of publication. Prereq., 322.

325. THE EDITORIAL PAGE**(2) Humphreys**

A study of the editorial page as to purpose, style, and effect. Training is given in writing interpretative news articles, columns, and all types of editorials. Prereq., 111, or 12 hrs. of English, and senior rank, or permission.

327. PUBLIC RELATIONS TECHNIQUES**(3) Hortin, Staff**

Study and practice of fundamental public relations functions. Emphasis is placed on polling, publicity writing, and preparation of literature of business organizations—house organs, reports, pamphlets, advertisements, leaflets, manuals, and letters. Prereq., 107, 146, and junior rank, or permission.

328. PUBLIC RELATIONS**(3) Hortin, Staff**

A study of advanced public relations problems, policies, and practices of various institutions and organizations in modern society. Attention is focused on public relations program development. Prereq., 327 or permission.

329. BUSINESS AND MAGAZINE JOURNALISM (2) Baird

Study of industrial, business, and institutional publications. Analysis of contents, purposes, and readership of such publications. Practice in copy preparation and make-up. Staff, costs, printing, and circulation are considered. Prereq., 111 and 146.

343. NEWSPAPER MANAGEMENT (2) Turnbull

A study of the problems and economics of publishing. Consideration is given to policy making as it affects all departments of the newspaper plant. Prereq., junior or senior rank.

348. ADVERTISING PRODUCTION (2) Turnbull

Study of mechanical, graphic, and creative methods of advertising production; comparative analysis of printing processes; relation of color, art work, type, media, and quality of paper to advertising purpose; study of cost and controls. Prereq., 247 or Advt, 332 or permission.

370. INTERNSHIP (3) Staff

A conference course open only to students who have completed their internship work with an approved organization. Students will submit a comprehensive report involving analysis and problems encountered during the summer training. Prereq., only by permission; junior rank or above, and completion of summer internship.

375. SPECIALIZED JOURNALISM (3) Baird, Staff

A course designed for students desiring training in special fields—science, sports, society, politics, military, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., junior rank or above and permission.

376. GRAPHIC PRODUCTION PROCESSES (3) Turnbull, Staff

Advanced study of all processes for reproducing the printed word and pictures, including photo-engraving, lithography, letterpress, roto-gravure, mimeographing, duplicating. Emphasis is placed on developing a thorough understanding of latest developments in each field as they affect editing, advertising, public relations, and television news. Includes theory and laboratory work in preparation of written and photographic copy for each process. Prereq., 146, senior rank, and permission.

381. RESEARCH IN JOURNALISM (1 to 8) Staff

Special studies in one or more phases of journalism. Prereq., 18 hrs. in journalism and advertising, and permission.

403. SEMINAR IN MASS COMMUNICATIONS (2) Staff

Methods of research in mass communications; the selection, planning, and evaluation of research problems. Study of thesis writing and selection of a thesis problem. Survey of outstanding books and periodical literature in mass communications. Prereq., permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

LATIN—See Classical Languages

LIBRARY SCIENCE

Assistant Professor Wright (Librarian)
 Assistant Librarians Chutter, Linnenbruegge, Dickinson, Devlin

Courses in Library Science under the direction of the University Librarian, in cooperation with the College of Education, provide training for students wishing to qualify as teacher-librarians under the Ohio Department of Education. Library Science 191 is also useful as a general elective for students interested in training for graduate or research work in any field of study. Students in literature or fine arts may find Library Science 194 helpful as background material.

191. HISTORY OF LIBRARIES AND THE USE OF LIBRARY RESOURCES

(3) Wright, Devlin

A survey of the development of book collections serves as an introduction to practical training in the effective use of modern library resources. Open to all students in any year. Required for a minor in library science. (2nd sem., yearly.)

192. CLASSIFICATION AND CATALOGING OF BOOKS

(3) Devlin

Training in classifying and cataloging books, with practice in the preparation of a card catalog for a high school library. Required for a minor in library science. (2nd sem., yearly.)

194. HISTORY OF BOOKS AND PRINTING

(3) Wright

A survey of the development of books and printing from early times to the present. (1st sem., 1958-59.)

202. BOOKS FOR HIGH SCHOOL READERS

(3) Linnenbruegge

A study of library service for young people serves as an introduction to books and book services for the high school age group. (2nd sem., 1959-60.)

291. THE SCHOOL LIBRARY

(3) Linnenbruegge

Study of methods and materials used in organizing school library service, and developing library use among school pupils. Practice work and field trips. Required for a minor in library science. (1st sem., yearly.)

393. ADMINISTRATIVE PROBLEMS IN A SCHOOL LIBRARY

(3) Linnenbruegge

Study of practical problems in planning adequate library quarters, selection of furniture and equipment, relations with faculty and with purchasing and finance offices. Offered second semester. Prereq., 291. (2nd sem., 1959-60.)

MANAGEMENT

Professors Beckert, Hellebrandt (chairman),
 Associate Professor Spivey

3. INTRODUCTION TO BUSINESS

(3) Beckert

A survey of the operations of business, large and small, in our capitalistic system with observations of the changes taking place in our free enterprise society. An understanding of the technical language of industry and the development of the vocabulary of business and business terms. Not open to upperclassmen pursuing the Bachelor of Science in Commerce degree.

211. INDUSTRIAL MANAGEMENT

(3) Hellebrandt, Staff

An examination of the basic fundamentals of management underlying the solution of problems of organization and operation in all business enterprise, followed by their application to such specific fields of industrial management as materials, personnel, production, budgets, labor relations, etc. Prereq., Ec. 12 or 102, junior rank, or permission.

301-302. PRODUCTION MANAGEMENT**(3) Hellebrandt**

An introduction to the more important production procedures and techniques commonly used by progressive manufacturing plants. Deals with methods of supervision used at the lower levels of management in the production field more than with the problems of policy formulation which confront the factory manager. Case and semi-laboratory method used. Prereq., 211, or permission.

302 covers practical training in the more important types of problems encountered by executives at the level of the executive factory manager. The main objective is to develop the ability to analyze and solve problems in management control of production and in the formulation of production policies. Case method used. Prereq., 301, or permission.

308. PRODUCTION PLANNING AND CONTROL**(2) Hellebrandt**

Study of forecasting, planning, authorizing, scheduling, dispatching, and controlling flow of industrial production, from receipt of customer's order to shipment of finished goods. Prereq., 211, or permission.

312. ADMINISTRATION OF PERSONNEL**(3) Staff**

A comprehensive survey in the principles of management of people in business organizations and institutions. Among the subjects treated are employee selection, training, and rating; labor turnover; job analysis; wage and salary administration. Prereq., 211, or permission.

314. PERSONNEL MANAGEMENT PROBLEMS**(3) Staff**

A detailed study of personnel problems and their relation to various personnel management principles dealing with such subjects as induction and training, transfers and promotions, and morale. Case method used. Prereq., 312, or permission.

321. MOTION AND TIME STUDY**(2 or 3 as scheduled) Hellebrandt**

Methods work, work simplification and time study as tools of management to develop methods of determining operating standards, production control, and wage rate determination. Prereq., 301 or 211 and/or permission.

325. INDUSTRIAL RELATIONS**(2 or 3 as scheduled) Hellebrandt**

Objectives, establishment and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; the methods of conciliation, mediation, and arbitration of disputes. Taught by case method. Prereq., 211, or permission.

332. WAGE AND SALARY ADMINISTRATION**(2 or 3 as scheduled) Staff**

The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. The techniques and methods of implementing wage and salary policies. Prereq., 302 or 312.

345. ADVANCED PRODUCTION PROBLEMS (2 or 3 as scheduled) Hellebrandt

Case studies of production problems in a number of different industries, designed to apply to all phases of the student's training and experience. Prereq., 302, senior rank and/or permission.

381. RESEARCH IN MANAGEMENT**(1 to 8) Staff**

Special studies in industrial organization and scientific management. Prereq., 16 hrs. economics and/or commerce including Mgt. 301 or 312, and permission.

391. SEMINAR IN MANAGEMENT (2 to 4) Staff
Maximum credit in course, 10 hrs. Prereq., 15 hrs. management and /or economics and permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

Additional courses: Ec. 335—Labor Economics, Ec. 338—Labor Legislation, Stat. 271—Analysis of Statistical Data, Stat. 341—Business Cycles, Stat. 345—Forecasting, and Sec. St. 285—Office Management.

MARKETING

Professor Krauskopf
Associate Professors Paynter (chairman), Raymond
Assistant Professor Richmond

155. MARKETING PRINCIPLES (3) Krauskopf, Paynter, Raymond, Richmond
The principles, methods, and policies of marketing consumers' goods and industrial goods. Prereq., Ec. 12 or 102.

258. MARKETING PROBLEMS (3) Raymond
A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

271. PRINCIPLES OF PERSONAL SELLING (2) Raymond
The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

276. SALES MANAGEMENT (2) Raymond
Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

301. RETAIL SELLING POLICIES (3) Paynter
The organization and operation of retail institutions. Prereq., 155.

302. RETAIL BUYING AND STOCK CONTROL (3) Paynter
A study of buying, receiving, and stock control practices in retail stores. Prereq., 301.

311. RECENT TRENDS IN MARKETING AND SELLING (3) Krauskopf, Paynter
Prereq., 155.

326. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155.

341. FOREIGN TRADE (3) Paynter
A study of the theories of foreign trade and of the problems met by concerns engaged in importing and exporting. Prereq., 155.

346. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155.

352. PROBLEMS IN SALES MANAGEMENT (2) Raymond

Problems of sales administration and selling policies by the case method. Prereq., 258 or 271, 276.

381. RESEARCH IN MARKETING (1 to 8) Staff

Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

391. SEMINAR IN MARKETING (2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

MATHEMATICS

Professors Marquis, Denbow, Goedicke
Associate Professors Butner (chairman), Fishback, Jasper
Assistant Professors Spring, W. E. Baxter, Hood, Sexauer
Instructors M. R. LeBoutillier, Diekhans, Uhl, N. Johnson,
Rodgers, Lauff

The major requirement for the A.B. or B.S. degree is 28 hours including Math. 5, 6, 101, 102 and at least two courses numbered above 300.

1. ELEMENTARY ALGEBRA (3) Staff

A beginning course for students with no high school algebra. (Summer session only.)

2. PLANE GEOMETRY (3) Staff

A course for students with no high school geometry. Prereq., 1, or 1 yr. high school algebra. (Summer session only.)

3. INTERMEDIATE ALGEBRA (3) Staff

Review of high school algebra and some simple topics from college algebra. Any student who takes 3 must earn a "C" or better in order to go on to Math. 5. Prereq., 2, or 1 yr. each in geometry and algebra in high school. (Each semester.)

5. FRESHMAN MATHEMATICS (5) Staff

College algebra and plane trigonometry. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school. (Each semester.)

6. ANALYTIC GEOMETRY AND CALCULUS I (5) Staff

Topics in analytic geometry, function and limits, differentiation and integration of algebraic forms, application of derivatives, integration as a summation process. Prereq., 5. (Each semester.)

9. FUNDAMENTALS OF MATHEMATICS (3) Staff

A critical reanalysis and review of the basic concepts of algebra. Not open to students who have had Math. 5. For premedical and pre-dental students; others by permission. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school. (1st sem. yearly.)

10. FUNDAMENTALS OF MATHEMATICS (3) Staff

An introduction to the basic concepts of statistics, analytic geometry, and the calculus. Not open to students who have had Math. 6. Prereq., 9. (2nd sem. yearly.)

34. MATHEMATICS OF FINANCE (3) Staff

A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 2, or 1 yr. each in algebra and plane geometry in high school. (Each semester.)

101. ANALYTIC GEOMETRY AND CALCULUS II (4) Staff

Conics, differentiation and integration of transcendental functions, polar coordinates, parametric equations, curvature, integration, indeterminate forms. Prereq., 6. (Each semester.)

102. ANALYTIC GEOMETRY AND CALCULUS III (4) Staff

Solid analytic geometry, series, expansion of functions, partial derivatives, multiple integrals, elementary differential equations. Prereq., 101. (Each semester.)

104. COLLEGE GEOMETRY (3) Staff

Review of plane geometry, together with a more advanced treatment of similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6. (2nd sem., yearly.)

107. ELEMENTARY STATISTICS (3) Staff

Basic theory and methods used in widely different fields. Histograms, ogives, probability, normal curve, curve fitting, sample theory; simple, correlation; testing statistical hypotheses. Not open to students who have had 207, or who have completed 101. Prereq., 5, or 9, or a "C" in 3. (Each semester.)

207. APPLIED STATISTICS (3) Staff

A course for beginners in statistics, covering the same topics as 107, and including also a study of quality control. Not open to students with 107. Prereq., 101. (Each semester.)

**268. TEACHING OF MATHEMATICS IN HIGH SCHOOL
(2 or 3 as scheduled) Fishback, Jasper**

An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 6 and Psych. 5. (2nd sem., yearly.)

301. THEORY OF EQUATIONS (3) Jasper, Spring

The roots of unity, roots of an equation, isolation of real roots, numerical solutions, determinants, and matrices, systems of linear equations, and symmetric functions. Prereq., 102 (1st sem., yearly.)

303. NUMERICAL ANALYSIS (3) Goedicke, Spring

An investigation of numerical methods for approximate solution of applied problems. Topics will include interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prereq., 315 or permission. (1st sem., 1958-59.)

304, 305. ADVANCED CALCULUS (3, 3) Fishback, Jasper

Critical treatment of certain topics in calculus. Limits, continuity, differentiation of functions of one and several variables, series, and definite and multiple integrals, line integrals. Prereq., 102, for 304; 304 for 305. (Yearly.)

308. PROJECTIVE GEOMETRY

(3) Fishback, Marquis

Elements, primitive forms, duality, projectively related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 102. (2nd sem., 1958-59.)

315. ADVANCED APPLIED MATHEMATICS I

(3) Staff

An introductory treatment of elementary and series solutions of differential equations, partial differential equations and boundary value problems, fourier series. Prereq., 102. (Each semester.)

316. ADVANCED APPLIED MATHEMATICS II

(3) Staff

An introductory treatment of matrices, vector analysis, complex variables, and Laplace transforms. Prereq., 315. (2nd sem., yearly.)

317. INTRODUCTION TO MODERN ALGEBRA

(3) Sexauer, Fishback

Development of the postulates of group theory, fields, rings, matrices and point sets. Prereq., 301 or permission. (1st sem., 1959-60.)

318. VECTOR ANALYSIS

(3) Butner, Goedicke

Algebra of vectors, differential and integral vector calculus, vector spaces, and introductory tensor analysis. Prereq., 102. (1st sem., 1959-60.)

319. MATRIX THEORY

(3) Butner, Denbow

Linear transformations; matrices over a field; canonical forms and invariants. Prereq., 301 or permission. (2nd sem., 1959-60.)

326. THEORY OF STATISTICS

(3) Butner, Goedicke

Basic concepts of statistics treated theoretically. Distributions of one and several variables, sampling theory, correlation, analysis of variance, testing of statistical hypothesis. Prereq., 102 and 107 or 207 or permission. (2nd sem., 1959-60.)

340. STUDIES IN MATHEMATICS

(3) Staff

Selected topics in mathematics are studied under the guidance of an instructor particularly interested in the field. Maximum credit in course, 6 hrs. Prereq., 18 hrs.

351-352. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

(3-3) Marquis, Jasper

Prereq., 304 for 305; 351 for 352. (1958-59.)

356. THEORY OF FUNCTIONS OF REAL VARIABLES

(3) Denbow, Hood

A critical study, from a modern point of view, of topics in real variable theory. Prereq., 304. (2nd sem., 1959-60.)

399. SEMINAR IN COMPUTING

(1) Staff

Topics in programming and theory of digital computing machines. Prereq., 6, and junior standing.

495. THESIS

(1 to 6) Staff

Prereq., permission.

MECHANICAL ENGINEERING—See Engineering

MUSIC

Professors Ingerham, Ahrendt (director)
 Visiting Professor Keleti
 Associate Professors Fontaine, P. Peterson, Stephenson
 Assistant Professors Kresge, Longstreet, Roach,
 Blayney, Thackrey, Morley, Witzler, Merritt,
 Minelli, Jennings, Brophy, Hall, Conkling,
 Bergsagel, Reims
 Instructors Szaroleta, R. D. Smith, Comin
 Lecturers Malone, Sears

APPLIED MUSIC

Private instructional fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$20 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

VOICE (1 to 3) Peterson, Roach, Merritt

Prereq., permission.

PIANO (1 to 3) Fontaine, Kresge, Longstreet, Jennings, Szaroleta

Prereq., permission.

ORGAN (1) Kresge

Prereq., permission.

STRINGED INSTRUMENTS: Violin, Viola, Violoncello, Bass
 (1 to 3) Ingerham, Conkling

Prereq., permission.

WOODWIND INSTRUMENTS: Flute, Oboe, Clarinet, Bassoon (1 to 3) Witzler

Prereq., permission.

BRASS INSTRUMENTS: Trumpet, Baritone, Horn, Trombone, Tuba
 (1 to 3) Brophy, Smith

Prereq., permission.

PERCUSSION INSTRUMENTS (1 to 3) Minelli

Prereq., permission.

BRASS CHOIR (1) Brophy

Prereq., permission.

UNIVERSITY BANDS (1) Minelli, Brophy

Open to men and women students. Prereq., permission.

UNIVERSITY CHORUS (1) Bergsagel

Open to men and women students. Prereq., permission.

UNIVERSITY SYMPHONY ORCHESTRA (1) Ahrendt

Open to men and women students. Prereq., permission.

MEN'S GLEE CLUB (1) Peterson

Open to men students. Prereq., permission.

WOMEN'S GLEE CLUB (1) Merritt

Open to women students. Prereq., permission.

- 66-67. CLASS PIANO (1-1) Blayney
Prereq., permission.
- 251-252. CHAMBER MUSIC (1-1) Staff
Participation in the playing of the standard chamber music literature. Prereq., permission. Maximum credit in course, 6 hrs.
273. CONDUCTING (2) Ingerham
Fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104 and 106.
- 331-332. PIANO ENSEMBLE (1-1) Staff
Participation in the playing of original works or arrangements for two pianos. Prereq., permission.
375. ADVANCED CONDUCTING (1 to 4) Staff
An opportunity for study and practical experience in either choral or instrumental conducting. Maximum credit in course, 6 hrs. Prereq., 104, 106, 273, and permission.
431. VOICE (1 to 4) Merritt, Peterson, Roach
Maximum credit in course, 16 hrs. Prereq., permission.
433. PIANO (1 to 4) Fontaine, Szaroleta, Jennings, Longstreet
Maximum credit in course, 16 hrs. Prereq., permission.
435. ENSEMBLE (1 to 4) Staff
Maximum credit in course, 16 hrs. Prereq., permission.
437. STRINGED INSTRUMENTS (1 to 4) Ingerham, Conkling
Maximum credit in course, 16 hrs. Prereq., permission.
439. WOODWIND INSTRUMENTS (1 to 4) Witzler
Maximum credit in course, 16 hrs. Prereq., permission.
441. BRASS INSTRUMENTS (1 to 4) Brophy, Smith
Maximum credit in course, 16 hrs. Prereq., permission.
443. PERCUSSION INSTRUMENTS (1 or 2) Minelli
Maximum credit in course, 8 hrs. Prereq., permission.
495. RECITAL (4) Staff
A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission. Fee charged by Radio Department based on length and type of program.

MUSIC HISTORY AND LITERATURE

5. MUSIC APPRECIATION (2) Thackrey, Malone
The form and meaning of musical masterpieces. Not open to music majors or those who have received credit for F.A. 123-124.
337. THE LITERATURE OF VOCAL MUSIC (2) Peterson
Representative literature from the fields of oratorio, choral music, and the art song. Prereq., F.A. 124.
338. THE LITERATURE OF ORCHESTRAL MUSIC (2) Ingerham
Orchestral literature from the classic through the contemporary. Prereq., F.A. 124.

339. THE EVOLUTION OF THE OPERA (2) Bergsagel
Prereq., F.A. 124.
340. THE LITERATURE OF PIANO MUSIC (2) Fontaine
The development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 124.
- 401-402. MUSIC LITERATURE (3-3) Bergsagel
Prereq., F.A. 124 and permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

THEORY AND COMPOSITION

- 3-4 THEORY (3-3) Hall
A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. 5 hrs. a week.
- 103-104. DICTATION AND SIGHT SINGING (2-2) Hall
Should be taken concurrently with 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.
- 105-106. HARMONY (3-3) Hall
Harmonization of melodies and figured basses, both written and at the keyboard. Improvisation, transposition. 4 hrs. a week. Prereq., 4 with a minimum grade of C.
- 201-202. ANALYSIS AND FORM (2-2) Fontaine
Harmonic and structural analysis of music composition. Prereq., 106.
233. INSTRUMENTATION (3) Minelli
The various orchestral instruments from the standpoint of their range and orchestral uses. Arranging for small ensembles. 3 hrs. a week and participation in Instrumental Workshop. Prereq., 106.
- 307-308. ARRANGING AND SCORING FOR BANDS (2-2) Minelli
Scoring and arranging for the modern marching and symphonic band. Prereq., 104, 106, and 233.
- 313-314. ORCHESTRATION (2-2) Ahrendt
Scoring for small, medium, and full orchestra. Prereq., 104 and 106.
- 315-316. ADVANCED HARMONY (2-2) Kresge
The evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 104 and 106.
- 317-318. COUNTERPOINT (2-2) Fontaine
Single counterpoint in all species in two, three, or four parts. Development of motive, double counterpoint, free writing on original themes. Prereq., 104 and 106.
- 319-320. COMPOSITION (2-2) Ahrendt
Original writing in the smaller forms. Prereq., 104 and 106.
- 357-358. COUNTERPOINT (2-2) Fontaine
Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Prereq., 318.
- 371-372. COMPOSITION (2-2) Ahrendt
Original writing in the larger forms. Prereq., 320.

384. RESEARCH IN MUSIC (1 to 4) Staff
Prereq., 30 hrs. or the equivalent. Permission.

403. SEMINAR IN MUSIC (1) Staff
Reports on research by students or faculty, for discussion. Required of all graduate students enrolled in the School of Music (yearly). Maximum credit, 2 hrs. Prereq., permission.

- 407-408. EVOLUTION OF HARMONIC THEORY (2-2) Bergsagel, Hall
A study of the writings of the most important music theorists from the 10th century to the present. Prereq., 106, F.A. 123-124, 1 yr. of Cpt., 201-202, 313-314, 315-316.

- 409-410. CANON AND FUGUE (2-2) Fontaine
A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 358 and permission.

- 425-426. COMPOSITION (2-2) Ahrendt
Extensive writing in the larger vocal and instrumental forms. Prereq., 372.

- 427-428. ADVANCED ORCHESTRATION (2-2) Ahrendt
Problems in scoring original works for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Prereq., 314 and 318.

429. SIXTEENTH CENTURY COUNTERPOINT (2) Fontaine
The techniques of the period, particularly as evidenced in the works of Palestrina and Lassus. Original writing in the sixteenth century modal style. Prereq., 318 and permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

MUSIC EDUCATION

72. MUSIC FUNDAMENTALS (2) Thackrey, Malone
A course for elementary teachers only involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week.

261. STRING TECHNIQUES AND MATERIALS (2) Conkling
5 hrs. a week.

263. WIND AND PERCUSSION TECHNIQUES AND MATERIALS (2) Staff
Maximum credit in the course, 6 hrs. 5 labs.

265. VOCAL TECHNIQUES AND MATERIALS (2) Stephenson

266. TEACHING OF MUSIC IN ELEMENTARY GRADES (2) Morley, Malone, Stephenson
Music material and methods for elementary teachers only. Prereq., 72.

267. SUPERVISION OF MUSIC IN THE ELEMENTARY SCHOOL (3) Blayney
(For music major only.) Prereq. with Ed. 272.
268. MUSIC IN THE JUNIOR AND SENIOR HIGH SCHOOL (3) Stephenson
Prereq., with Ed. 281.
276. MUSIC WORKSHOP (1 to 3) Staff
Maximum credit in the course, 4 hrs.
a. Elementary Music Workshop (Summer only).
b. Elementary Music Workshop (Extension only).
- 376a, b, c, d. MUSIC WORKSHOP (1 to 4) Staff
Maximum credit in course, 6 hrs.
a. Music Clinic-Workshop (Summer only).
b. Opera Workshop (Summer only).
c. Elementary Music Workshop (Summer only).
d. Elementary Music Workshop (Extension only).
470. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2) Stephenson
Prereq., permission.
471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2) Morley
2 lec., lab as required. Prereq., 265, 267, 268, 2 hrs. observation,
and 4 hrs. student teaching.
472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC (3) Minelli
2 lec., lab as required. Prereq., 261, 263, 2 hrs. observation, and 4
hrs. student teaching.
473. EXPERIMENTAL STUDIES IN MUSIC (3) Stephenson
Important psychological investigations bearing upon musical compo-
sition, performance and appreciation. Prereq., permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

MUSIC THERAPY

374. FOUNDATIONS OF MUSIC (2 to 4) Sears
A lecture-laboratory course applying pertinent findings from the
fields of physics, acoustics, electronics, physiology, psychology, and
sociology to music education and music therapy. 2 lec., 3 lab, and re-
search problem. Prereq., 6 hrs. psychology, general biology, introductory
physics, permission.
377. BACKGROUND OF MUSIC THERAPY (3) Sears
The history of the use of music in mental hospitals and clinics;
present trends; state and private hospital programs. Prereq., 30 hrs. of
music, 9 hrs. of psychology or equivalent; special permission.
379. MUSIC THERAPY (2 to 9) Sears
A workshop course in methods, materials and procedures of con-
ducting a music therapy program in hospitals and clinics. Prereq., 377,
or by special permission.

PAINTING—See Art

PHILOSOPHY

Professor Organ (chairman)
 Associate Professor Murphree
 Assistant Professors Wieman, Grean, Hagensick
 Instructor Sheridan

The major requirement for the A.B. degree consists of a minimum of 24 hours, including 110, 221, 222, and at least three courses in the 300 group.

1. PRINCIPLES OF REASONING

(3) Staff

A general course in reasoning which considers the methods by which dependable knowledge is achieved in the natural sciences and social studies, with attention to the common psychological, semantic, and logical errors in human reasoning. Not open to juniors and seniors. (Each semester.)

2. MORAL PHILOSOPHIES

(3) Grean, Murphree, Sheridan

A study of important moral philosophies in the history of western thought. Discussion of such themes as the good life and the nature of moral obligation. Not open to juniors and seniors. (Each semester.)

103. OLD TESTAMENT THOUGHT

(3) Grean, Hood

A study of the development of Old Testament thought from the earliest times. Examination of the philosophical, moral, and religious significance of important passages. The evolution of prophecy and of law, and the rise of post-exilic Judaism will be treated. (1st sem., yearly.)

104. NEW TESTAMENT THOUGHT

(3) Grean, Hood

A study of the background and development of New Testament thought. Examination of the philosophical, moral, and religious significance of the beliefs of Jesus, Paul, and the early Church. (2nd sem., yearly.)

107. WORLD'S GREAT RELIGIONS

(3) Organ

A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the living religions of the world. (Each semester.)

110. INTRODUCTION TO PHILOSOPHY

(3) Staff

An analysis of the typical philosophical problems arising in the study of nature, society, religion, and art for the purpose of developing a thoughtful and consistent intellectual perspective. (Each semester.)

117. SOCIAL PHILOSOPHY

(2) Murphree

An analysis of basic types of social and political philosophies, classical and modern, including the philosophical backgrounds of American democracy. (1st sem., yearly.)

201. ETHICS

(3) Wieman

A comparative study of theories of the right and the good which enter into contemporary thought, with attention to the problem of evidence and the relation between value standards and experience. (Each semester.)

209. LOGIC

(3) Hagensick

A consideration of the nature of reasoning and argument with special emphasis on the applications of logic in ordinary and scientific activities. (Each semester.)

212. AMERICAN PHILOSOPHY (3) Murphree

Chief movements in American thought beginning with transcendentalism and including pragmatism, naturalism, and idealism. Prereq., 110. (2nd sem., yearly.)

215. PHILOSOPHY OF RELIGION (3) Grean

A discussion and analysis of representative theories of the nature of religion and religious experience, the existence and nature of God, the problem of evil, human freedom, immortality, and religion and culture. (1st sem., yearly.)

221. HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL

(3) Organ

A study of significant ideas of representative philosophers in the western world from 600 B.C. to 1600 A.D. (1st sem., yearly.)

222. HISTORY OF WESTERN PHILOSOPHY: MODERN (3) Sheridan

A study of significant ideas of representative philosophers in the western world since 1600. (2nd sem., yearly.)

302. AESTHETICS (3) Grean

The nature and function of art and aesthetic experience. Discussion of representative theories of beauty, the creative process, aesthetic appreciation, art and morality, and art and religion. Analysis of particular works of art will be used as illustrations. Prereq., 6 hrs. or 3 hrs. and 12 hrs. humanities. (2nd sem., yearly.)

304. CONTEMPORARY SOCIAL PHILOSOPHY (2) Murphree

Readings in modern social philosophy with attention to theories of action, mass movements, and politics. Prereq., 6 hrs. or 3 hrs. and 6 hrs. of a social science. (2nd sem., 1959-60.)

305. THEORY OF KNOWLEDGE (3) Hagensick

A critical examination and appraisal of various twentieth century views of what knowledge is and how it is attained. Prereq., 6 hrs. (1st sem., 1959-60.)

306. PHILOSOPHY OF SCIENCE (3) Hagensick

An examination of philosophical problems associated with science. The character of scientific methods, the relationships between laws and theories are among the topics studied. Prereq., 6 hrs. or 3 hrs. and 12 hrs. natural science. (2nd sem., yearly.)

308. EASTERN PHILOSOPHY (2) Organ

An examination of selected philosophers and systems of philosophy of India and China. Prereq., 6 hrs. including 107. (2nd sem., 1958-59.)

310. PRAGMATISM (2) Murphree

The background of the pragmatic movement and its development as represented by Peirce, James, Dewey, and Schiller. Prereq., 6 hrs. (2nd sem., 1958-59.)

311. METAPHYSICS (2) Wieman

A survey of basic assumptions underlying different conceptions of the world, with special attention to materialism, formism, idealism, and contextualism. Prereq., 6 hrs. (1st sem., 1958-59.)

321. PLATO (2) Wieman

Reading of selected works of Plato in English translation. Prereq., 6 hrs. (1st sem., 1959-60.)

322. ARISTOTLE (2) Organ

Reading of selected works of Aristotle in English translations. Prereq., 6 hrs. (2nd sem., 1959-60.)

331. CONTINENTAL IDEALISM

(2) Sheridan

Reading and discussion of selections from Kant, Hegel, Schopenhauer, and Cassirer. This course will present the idealist view of the nature of knowledge, the nature of man, and the problem of value. Prereq., 6 hrs. (1st sem., 1958-59.)

333. EXISTENTIALISM

(2) Sheridan

A critical examination of existentialism with emphasis on Sartre, Marcel, Jaspers, and Heidegger. This movement will be treated as a philosophic discipline and in relation to trends in modern life. Prereq., 6 hrs. (1st sem., 1959-60.)

341. SYMBOLIC LOGIC

(2) Hagensick

The study and use of symbolic methods and techniques for considering logical problems. Special attention is given to the relations between symbolic logic and our natural and technical languages. Prereq., 6 hrs. including 209. (1st sem., 1958-59.)

391. SEMINAR IN PHILOSOPHY

(1-3) Staff

Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

495. THESIS

(1 to 4) Staff

Prereq., permission.

PHOTOGRAPHY

Lecturers White, Truxell, Allen

A student may not register for more than eight hours in photography during a single semester without special permission.

77-78. BASIC PHOTOGRAPHY

(3-3) Allen

1 lec. and 4 lab.

133. BASIC NEWS PHOTOGRAPHY

(3) White

Introduction to photographic technique and practice and study of picture content for news reporting. (Not open to photog. majors.) 1 lec. and 4 lab.

134. ADVANCED NEWS PHOTOGRAPHY

(3) Truxell

Study and practice in photography for news and feature reporting. 1 lec. and 4 lab. Prereq., 78 or 133 and permission.

143-144. PHOTOGRAPHIC PROCESSES

(3-3) White

History of photographic processes, photographic optics, photochemistry, sensitometry, photographic printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.

145-146. WORKSHOP IN PHOTOGRAPHY

(3-3) Allen

Individual practice in basic problems of photographic design and technique. Maximum credit in course, 6 hrs. 6 lab. Prereq., 78.

277-278. PORTRAITURE

(3-3) Truxell

Formal and informal portraiture as well as problems connected with the photography of people indoors and out-of-doors, individually or in groups, including an approach to fashion. 1 lec. and 4 lab. Prereq., 146.

379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY

(3-3) White

Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 1 lec. and 4 lab. Prereq., 278 or permission.

381. PROBLEMS IN PHOTOGRAPHY

(3) Staff

Individual study and practice in a specialized phase of photography under instructor supervision. Maximum credit in any one phase or combination of phases, 12 hrs. 6 lab.

- a. Individual selection of approved problems in photographic design, technique or practice. 6 lab. Prereq., 277.
- b. Picture stories for publication and magazine free-lance photography. 1 lec. and 4 lab. Prereq., 277.
- c. 16 mm. motion picture production. 6 lab. Prereq., 277.
- d. Special problems in color photography. 6 lab. Prereq., 391.

391-392. COLOR PHOTOGRAPHY

(5-5) White

Theory of color photography, practice with color transparency materials, direct separations, separations from transparencies, masking, and dye transfer printing. 1 lec. and 8 lab. Prereq., 144 and 278 and permission.

481. RESEARCH IN PHOTOGRAPHY

(1 to 4) Staff

Maximum credit in course, 8 hrs. Prereq., 20 hrs. including 381 and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

PHYSICAL EDUCATION AND ATHLETICS

Associate Professors Hatcher, Trautwein,
LaTourrette, Trepp, Nessley, Rhoads, Widdoes, Miller
Assistant Professors Blosser, Wren, Snyder,
Richey, Heffelfinger, Schleicher, Bartels
Instructors Gillespie, Huntsman, Billingsley,
Jensen, McComb, O'Neal, Sams

WIDDOES, director of the Division; TRAUTWEIN, associate director and business manager of intercollegiate athletics; NESSLEY, assistant director in charge of physical education program; HATCHER, health education; TREPP, chairman, major curriculum for men; LATOURRETTE, recreation; MILLER, chairman, women's program; RHOADS, intramural athletics, men; GILLESPIE, intramural sports, women; HUNTSMAN, head track coach; BLOSSER, golf coach, assistant in football and basketball; WREN, head baseball coach, assistant in football; HEFFELFINGER, head line coach in football; JENSEN, modern dance; SNYDER, head basketball coach, assistant in football; RICHEY, freshman football and baseball; SAMS, aquatics, for women; BARTELS, swimming and tennis coach and aquatics, for men; SCHLEICHER, athletic trainer, wrestling coach; O'NEAL, supervising critic, Putnam school; BILLINGSLEY, aquatics and gymnastics; MCCOMB, ice activities and soccer.

SERVICE COURSES

The physical education program is designed for the diversified interests and abilities of men and women in the University. Students may elect freely from those courses which appeal to them yet avoid repetition of one sport or activity for the entire fulfillment of their physical education requirement.

The asterisk (*) indicates those courses which may be repeated once. For women this may be done by permission. No student may use more than two credit hours in the same sport or activity toward a degree requirement.

For a detailed statement of the university requirement in physical education refer to page 70.

MEN

1, 2. SEASONAL SPORTS (1, 1) Blosser and Staff

Instruction and guidance in sports adaptable to team and league play. Activities change with the seasons and weather conditions. 3 hrs. a week.

11. VOLLEYBALL, HANDBALL, BADMINTON (1) Nessley

Students may rotate activities during the semester. 3 hrs. a week.

19. GYMNASTICS (1) Billingsley

Instruction and practice in tumbling skills, stunts, apparatus, pyramids, and trampoline. 3 hrs. a week.

21. WRESTLING* (1) Schleicher

For those who wish to learn wrestling, develop additional skill, or train for the varsity squad. Daily for half a semester.

23. TRACK AND CROSS COUNTRY* (1) Huntsman

Coaching and practice in track and field events and training for varsity track squads. Daily for half a semester.

24. TOUCH FOOTBALL AND SOCCER (1) McComb and Staff

Varsity and freshman squads. Daily for half a semester.

25. FOOTBALL* (1) Staff

Coaching and practice in skills, strategy, play making and rules. Two double periods a week for half a semester. Prereq., permission.

27. BASEBALL* (1) Wren

Instruction and guidance in team and league play. Daily for half a semester.

29. BASKETBALL* (1) Snyder

Coaching and practice in skills, plays, techniques and strategy. Daily for half a semester.

31. SWIMMING* (1) Bartels and Staff

Coaching and practice in standardized swimming meet events. Daily for half a semester.

33. HANDBALL (1) Staff

Instruction and practice in skills, court strategy, and rules of the four-wall game. 3 hrs. a week.

39. DIVING FUNDAMENTALS (1) Billingsley

Instruction and practice in springboard skills and the basic dives from each of the five diving groups. 3 hrs. a week.

51. ICE HOCKEY* (1) McComb

Daily for half a semester. Prereq., permission.

MEN—WOMEN

3. BEGINNING SWIMMING (1) Sams, Bartels, Staff

For students who are unable to take care of themselves in deep water; orientation to water, skills, safety, elementary strokes and forms of diving. 3 hrs. a week.

4. INTERMEDIATE SWIMMING* (1) Sams, Bartels, Staff

For students who have passed a beginner's swimming test or can swim; instruction and practice in the basic strokes, plain and surface diving. Prereq., 3 or equivalent. 3 hrs. a week.

5. ADVANCED SWIMMING (1) Sams, Bartels, Staff

For those who have passed the Red Cross Swimmer's Test or its equivalent. The analysis and skills of diving, the recognized strokes and their variations, and fundamentals of competitive swimming. Prereq., 4 or permission. 3 hrs. a week.

7. BEGINNING MODERN DANCE (1) Jensen

Fundamentals of movement technique and introduction to the concept of movement in relation to time, space, and dynamics. 3 hrs. a week.

8. INTERMEDIATE MODERN DANCE* (1) Jensen

Further studies in technique and dance forms. Prereq., 7 or previous dance training. 3 hrs. a week.

9, 10. ADAPTED ACTIVITIES* (1, 1) Trepp, Miller

Students whose physical activities should be restricted are assigned to those activities adapted to their special needs. 3 hrs. a week. Prereq., medical permission.

15, 16. FOLK AND NATIONAL DANCING (1, 1) Hatcher, LaTourrette

American square dances and European dances based on the schottische, polka, and waltz. Sixteen is a continuation of 15, using dances which involve more difficult steps. 3 hrs. a week.

17. BEGINNING TENNIS (1) Heffelfinger, Miller

For students who wish to learn or improve skills, fundamentals of play, court strategy and rules. Daily for half a semester.

18. INTERMEDIATE TENNIS* (1) Heffelfinger, Miller

A continuation of 17 with emphasis on fundamentals of play and court strategy. Prereq., 17 or playing experience. Daily for half a semester.

37. FENCING (1) Nessley

Instruction and practice in foil fencing. 3 hrs. a week.

38. ADVANCED FENCING (1) Nessley

A continuation of 37. Emphasis on bouts.

41. BEGINNING GOLF (1) Blosser, Gillespie, Staff

Instruction and practice in grips, strokes, stance and other techniques necessary to start playing golf. Daily for half a semester.

42. INTERMEDIATE GOLF* (1) Blosser, Staff

Instruction and practice in playing golf. Prereq., 41 or playing experience. Daily for half a semester.

45. BEGINNING BOWLING (1) Schleicher, Richey

Instruction and practice in skills, etiquette, rules and scoring. Daily for half a semester. Pin fee, \$10.50.

47. RIDING (1) Staff
Instruction and practice at the McAfee farm. Fee, \$20.
49. BEGINNING SKATING (1) McComb, Staff
50. ADVANCED AND FIGURE SKATING (1) McComb, Staff
- 115-116. ADVANCED MODERN DANCE* (1-1) Jensen
The more complex coordinations and movement studies. Further study in rhythmic, spatial and dynamic elements of dance. Experimentation in form and composition. 3 hrs. a week. Prereq., permission.
118. LIFE SAVING AND WATER SAFETY (1) Bartels, Sams, Staff
Techniques included in the test for American Red Cross Senior Life Saving certificate are covered. 3 hrs. a week. Prereq., 5 or permission.
120. INSTRUCTOR'S LIFE SAVING AND WATER SAFETY (1) Bartels, Sams, Staff
For those who have been certified as American Red Cross Senior Life Savers and wish to do advanced work in the skills and teaching technique of water activity. 3 hrs. a week. Prereq., 118.

WOMEN

Course numbers 1 through 131 may be used to satisfy the physical education requirement.

- 1, 2. SPORTS (1, 1) Staff
Students choose from field hockey, soccer, basketball, volleyball, baseball and badminton according to seasons. This course may be repeated if a different sport is taken. 3 hours a week.
6. ELEMENTARY TAP DANCING (1) Staff
A course designed for beginners. 3 hrs. a week.
112. SYNCHRONIZED SWIMMING (1) Sams
Dealing with fundamental rhythmic patterns and stunts necessary in creating routines for synchronized swimming. Prereq., 5 or permission. 3 hrs. a week.
113. HIKING (1) LaTourrette
Hikes are varied as to distance and places visited. First aid and rules of the road for hikers and practice in leading hikes are included. 3 hrs. a week.
114. CAMP CRAFT (1) LaTourrette
An activity course giving experience in firebuilding, outdoor cooking and lashing temporary camp equipment. One overnight hike is required. 3 hrs. a week.
131. MASS GAMES (1) Gillespie
Games for primary and intermediate grades, program planning and game leadership. For physical education majors or minors, students in elementary education and recreational leaders, or by permission. 3 hrs. a week.
- 137, 138. CHOREOGRAPHY (1 or 2) Jensen
Studies and experimentation in dance composition. Prereq., permission.

PROFESSIONAL COURSES FOR THE MAJOR OR MINOR

Refer to curricula in Health Education, Physical Education and Recreation, pages 169, 170, and 171.

MEN

65, 66. PROGRAM SKILLS (2, 2) Rhoads, Huntsman, Bartels, Billingsley
P.E. 65: Theory and practice of touch football, soccer, speedball, tumbling, stunts and apparatus, swimming proficiency tests and officiating practice.

P.E. 66: Swimming, marching and conditioning exercises, volleyball, tennis, softball, secondary school games, and officiating practice.

121. PROGRAM SKILLS (2) Trepp
Selected rhythmical activities; archery, handball, badminton, horse shoes, table tennis; relays and mass games suitable for the elementary school program. Prereq., 65 or 66. 6 hrs. a week.

122. PROGRAM SKILLS (1) Blosser, Nessley, Bartels
Wrestling, fencing, golf, outdoor education and methods in aquatics. Prereq., 65 or 66. 6 hrs. a week.

139. ATHLETIC OFFICIATING (2) Rhoads
A study of the rules, mechanics and procedures for the officiating of football and basketball; State certification upon successful completion of the course.

181. INTRAMURAL SPORTS (2) Rhoads
Current practices, ideas and methods of organizing and administering a program of intramural sports at all age levels.

267. ATHLETIC COACHING (2 to 4) Widdoes, Staff
Basketball and baseball. See description under 268. Prereq., junior or senior rank.

268. ATHLETIC COACHING (2 to 4) Widdoes, Staff
Football and track. Instruction and practice in the gymnasium and on the field; readings, discussions, reports and moving pictures of actual cases, theories, systems of play, problems relative to athletic coaching and interscholastic and intercollegiate competition. Prereq., junior or senior rank.

MEN—WOMEN

102. PERSONAL AND COMMUNITY HEALTH (3) Hatcher, Trepp
Provides a knowledge of the hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

127. FIRST AID (2) LaTourrette
Application of the principles and practice of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

128. PHYSICAL THERAPY (2) Schleicher
Theory and practice of physical therapy and the treatment of athletic injuries. Prereq., Zool. 133-134.

133-134. ANATOMY, KINESIOLOGY AND PHYSIOLOGY (4-4) Vallows, Trepp
(Same as Zool. 133-134.) For course description, see Zoology.

135. PROGRAM TECHNIQUES (1) Miller, Trepp, Staff
Designed to give majors practical experience in the organization, teaching and management of health education and physical education and recreation programs. Students are supervised by staff members. 3 hrs. a week.

150. RECREATION

(3) LaTourrette

A review of the theory of play, recreation and group work. Students organize parties and square dances and do handcraft. Programs are planned for community and institutional groups.

153. NATURE AND FUNCTION OF PLAY

(2) Rhoads

The historical background, theory, need and administration of play, emphasizing play programs for schools, recreation centers, camps and clubs.

233. THEORY OF ADAPTED ACTIVITIES

(2) Trepp, Miller

The organization of reconstructive programs adapted to the needs of physically handicapped individuals. Conditions such as postural defects, cardiac defects, post operative cases, etc., are described and therapeutic exercises and suitable sports evaluated. Prereq., Zool. 133.

269. TEACHING OF HEALTH

(3) Trepp

Instruction, principles and curricula used in presenting health information to pupils in the elementary and secondary schools. Prereq., 102.

270. TEACHING OF PHYSICAL EDUCATION

(1) O'Neal

Objectives, organization and program suggestions for physical education in the elementary and secondary school.

271. TEACHING OF SWIMMING

(2) Sams, Bartels

Methods and practice in the teaching of swimming. Prereq., 118.

304. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

(3) Hatcher, Rhoads

Systems of physical education from the time of the Greeks and their effects on our present programs; the principles underlying physical education in the modern program of education. Prereq., Zool. 133, and 134 or with 134, or equivalent.

306. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

(2) Miller, Nessley

Readings and discussions about typical methods of organizing and administering physical education, school and community health, recreation and athletics in elementary and secondary schools, private schools and colleges. Prereq., junior or senior rank.

309. TESTS AND MEASUREMENTS

(3) Miller, Nessley

Available tests and measurements for health education, physical education and athletics, their place, use and possibilities in the program; practice in handling testing data by elementary statistical methods. Prereq., 10 hrs. and senior or graduate rank.

349. COMMUNITY RECREATION

(3) Nessley

For those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program building, general administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs. and senior or graduate rank.

352. PHYSICAL DIAGNOSIS

(3) Schmidt and Staff

A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development and the techniques in conducting health examinations and clinical service. Prereq., 15 hrs. and senior or graduate rank.

353. CLINICAL OBSERVATION AND PRACTICE IN PHYSICAL MEDICINE AND REHABILITATION (3) V.A. Hospital Staff

A concentrated summer school field course at Veterans Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. Open to senior majors or graduate students in physical education. May be taken alone or in conjunction with one or more courses on the campus at Athens. Prereq., Zool. 133-134, or equivalent.

395. SCHOOL HEALTH PROBLEMS (3) Trepp

A study of the principles, problems, organization and administration of school health programs, including school and community relationships. Prereq., 10 hrs., senior or graduate rank.

396. PROBLEMS OF INTERSCHOOL ATHLETICS (3) Widdoes, Rhoads

The organization and administration of interschool athletics from the point of view of coaches and administrators; the problems pertaining to interschool competition at all age levels. Prereq., 10 hrs. and senior or graduate rank.

491. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS

(3) Nessley, Miller, Staff

For graduate students who wish to do research and investigation in health education, physical education, recreation or athletics. Topics and problems suitable for thesis writing, trends of the program, methods of research, writing practice and critical analysis of outlines for research study. Prereq., 24 hrs.

495. THESIS

(1 to 6) Staff

Prereq., permission.

WOMEN

121, 122. PROGRAM SKILLS (2, 2) Staff

Theory and practice of individual sports techniques, folk dancing, fundamental gymnastics, tumbling and stunts.

139. ATHLETIC OFFICIATING (1) Hatcher, LaTourrette

Theory and practice of officiating field hockey, soccer and basketball.

140. ATHLETIC OFFICIATING (1) LaTourrette

Theory and practice of officiating volleyball, baseball, and track.

142. CAMP LEADERSHIP (2) LaTourrette

The responsibilities of counselors and methods of program planning. Assistance with the campcraft class provides practical leadership experiences. (Offered in alternate years.)

272. COACHING METHODS (2) Hatcher, LaTourrette

Theory and practice of coaching field hockey, soccer, and basketball. Prereq., playing experience in the sports.

273. COACHING METHODS (2) LaTourrette

Theory and practice of coaching volleyball, baseball, track and field activities. Prereq., playing experience in the sports.

274. TEACHING OF RHYTHMIC ACTIVITIES (1) Hatcher, Jensen

Methods of teaching folk dancing. Prereq., 15 or 122.

275. TEACHING OF RHYTHMIC ACTIVITIES (1) Hatcher, Jensen

Methods of teaching ballroom and modern dancing. Prereq., 8.

PHYSICAL SCIENCE—See General Studies

PHYSICS

Professor Edwards

Associate Professors McClure, Pierce,

Randall (chairman), T. Smith

Assistant Professors Gallaher, Stumpf, Shipman

The major requirement for the A.B. degree is a minimum of 24 semester hours including 113-114 and at least 6 hours in courses numbered above 300 and Math. 5, 6, 101, and 102.

The major requirement for the B.S. degree is a minimum of 36 semester hours. This must include 113-114, 201-202, 219-220, and a minimum of 5 semester hours in advanced laboratory courses selected from 325 to 330 inclusive, and at least 15 hours in courses numbered above 300. Mathematics courses through differential equations are also required.

Students preparing for positions in industrial or atomic energy laboratories should register for additional advanced laboratory courses while completing the B.S. degree. A complete curriculum for such students is given on page 104.

Freshmen students planning to major in physics are advised to take Math. 5, 6 and General Chemistry. Students anticipating graduate study should obtain a reading knowledge of both French and German.

5, 6. INTRODUCTION TO PHYSICS

(4, 4) Edwards, Shipman

A beginning course in physics designed for nontechnical and pre-medical students. Phys. 5, mechanics and heat; Phys. 6, electricity, atomic structure, sound and light. 3 lec. and 2 lab. (Yearly.)

113-114. GENERAL PHYSICS(4-4) Gallaher, McClure, Randall
Shipman, Smith

Fundamental principles of physics. Phys. 113, mechanics, heat, and sound; Phys. 114, electricity, magnetism, and light. For students in engineering, mathematics, physics, and chemistry. 3 lec. and 2 lab. Prereq., Math. 6. (Both courses offered each semester.)

115. MODERN PHYSICS

(3) Stumpf

Fundamental principles of atomic, nuclear, and solid state physics for engineering and science students. 3 lec. Prereq., 114 or 6 and Math. 6. (2nd sem., yearly.)

201-202. MECHANICS

(3-3) Stumpf

Vector analysis, kinematics, Newton's Laws of motion, momentum and energy, the harmonic oscillator, rigid body motion, Lagrange's equations, elasticity, hydrostatics and hydrodynamics, and wave motion. Prereq., 114 and Math. 102. (Yearly.)

215. SOUND

(2) Pierce

Wave motion and equations representing it; vibration of strings, bars, and air columns; musical scales; interference, beats, and combination tones; hearing; architectural acoustics. Prereq., 5 or 113 and Math. 6. (2nd sem., 1959-60.)

219-220. ELECTRICITY AND MAGNETISM

(3-3) Smith

A.C. and D.C. circuits, electric and magnetic fields, both static and dynamic. Theory of electrical measurements. Maxwell's equations. Prereq., 114 and Math. 102. (Yearly.)

268. TEACHING OF PHYSICAL SCIENCES

(2) Pierce

Objectives, materials, methods, evaluation. Prereq., 8 hrs. in physics or chemistry. (2nd sem., 1958-59.)

305. LIGHT

(3) Randall

Laws of geometric optics, theory of interference, diffraction, polarimetry, electromagnetic waves, dispersion, double refraction and other selected topics. Experimental basis of concepts is emphasized. Prereq., 114 and Math. 102 (2nd sem., 1958-59.)

308. X-RAYS

(2) Gallaher

The history and development of the principles of X-rays in medicine, chemistry, and physics; production of continuous and characteristic X-ray spectra; detection, absorption, classical and quantum scattering, refraction and applications to crystallography. Prereq., 114 and Math. 102. (1st sem., 1959-60.)

310. HEAT AND THERMODYNAMICS

(3) Smith

Temperature, expansivity, calorimetry, specific heats, thermal conduction, thermal properties of gases, change of phase, first and second laws of thermodynamics, Carnot cycle, entropy, applications to physical processes. Prereq., 114 and Math. 102. (2nd sem., 1959-60.)

314. MODERN SPECTROSCOPY

(3) Randall

The structure of atoms, molecules, and nuclei as revealed by emission and absorption spectra, hyperfine structure, energy levels, electron configurations, and elementary quantum mechanics. Prereq., 114. (1st sem., yearly.)

325. MECHANICS LABORATORY

(1 or 2) Pierce

Kater's pendulum, impact, moment of inertia, gyroscope, viscosity, bending of beams, coupled pendulums. Prereq., 113 and Math. 102. (1st sem., 1959-60.)

326. HEAT LABORATORY

(1 or 2) Pierce

Mechanical equivalent, heat of combustion, determination of gamma, conductivity, specific heat of carbon, absolute expansion of mercury, flame temperature. Prereq., 114 and Math. 102. (1st sem., 1958-59.)

327. OPTICS LABORATORY

(1 to 3) Randall

Dispersion, resolving power, Fresnel and Fraunhofer diffraction, Newton's rings, Michelson interferometer, grating, refractometer, polarimeter, measurement of wave length. Use of precision apparatus and accurate results emphasized. Prereq., 114. (1st sem., 1959-60.)

328. SPECTROSCOPY LABORATORY

(1 to 3) Randall

Qualitative and quantitative analysis by emission and absorption methods in visible and ultraviolet regions, prism and grating spectrometers. Experimental techniques in calibration, sources, standards, mountings, spectrophotometry, photographic procedure. Prereq., 114. (2nd sem., yearly.)

329. ELECTRONICS AND ELECTRICAL MEASUREMENTS LABORATORY

(1 to 4) Smith

Charge on the electron, specific charge of electron, thermionic emission, resonance potentials, discharge through gases, photoelectricity. Study of ballistic galvanometer, dielectric constants, magnetic hysteresis, transients. Prereq., 114 and Math. 102. (1st sem., yearly.)

330. X-RAYS AND RADIOACTIVITY LABORATORY

(1 to 3) Edwards

Crystal analysis, X-ray spectral distribution, absorption coefficients and limits, Moseley's law, curved crystal spectrograph. Geiger counters, pulse heights and coincidence analysis. Radioactive decay and radiation study. Prereq., 114 and Math. 102. (2nd sem., yearly.)

349-350. ATOMIC AND NUCLEAR PHYSICS

(3-3) Edwards

Phys. 349, introduction to atomic physics; Phys. 350, introduction to nuclear physics. Intended for students in physics, chemistry, mathematics or engineering. Topics include elementary particles, quantum theory of radiation, nuclear energy and reactions. Prereq., 114 and Math. 102. (Yearly.)

352. QUANTUM MECHANICS

(3) Gallaher

The philosophy and methods of selected topics including Schroedinger's equation, simple barrier problems, eigenfunctions for the rigid rotator and the linear harmonic oscillator. Prereq., 201 and Math. 315. (2nd sem., 1959-60.)

361. SPECIAL PROBLEMS IN PHYSICS

(1 to 3) Staff

Supervised minor research problems in experimental or theoretical physics. Prereq., 15 hrs. and permission. (Yearly.)

365. NUCLEAR REACTOR THEORY AND PRACTICE

(3) Randall

Nuclear physics and neutron theory used in reactors; declassified applications to reactor engineering practice, operation, design and materials. Intended for scientists and engineers interested in atomic energy. Prereq., 114 and Math. 102. (1st sem., 1959-60.)

405-406. THEORETICAL PHYSICS

(4-4) Gallaher

Advanced dynamics. Lagrange's equations. Hamilton's principle, canonical equations, Hamilton-Jacobi equations, statistical mechanics, kinetic theory, electromagnetic theory. Prereq., 114, Math. 315 and permission. (1958-59.)

410. HIGH ENERGY PARTICLES

(3) Randall

Theoretical and experimental methods of current problems concerning photons, electrons, mesons, neutrons, protons and hyperons from cosmic rays and particle accelerators. Prereq., 14 hrs. and Math. 102. (2nd sem. 1959-60.)

451. ELECTROMAGNETIC THEORY

(3) Gallaher

Electro-and magneto-statics, Maxwell's equations, vector and scalar potentials, electromagnetic radiation, multipole radiation, retarded potentials, Huygen's principle, relativistic electrodynamics and selected topics. Prereq., 406. (1st sem., 1959-60 or on demand.)

461. STATISTICAL MECHANICS AND THERMODYNAMICS

(3) Smith

Quantum theory. Maxwell-Boltzmann, Fermi-Dirac, and Bose-Einstein statistics. Development of partition function. Application of the general theories to selected topics in classical and quantum states of gases, chemical equilibrium, specific heats, fluctuations, transport phenomena, electric and magnetic properties of matter. Prereq., 310, 352, 405. (2nd sem., 1958-59 or on demand.)

481. RESEARCH IN PHYSICS

(1 to 3) Staff

Maximum credit in course, 6 hrs. Prereq., 15 hrs. and permission.

491, 492. SEMINAR IN PHYSICS

(1, 1) Gallaher

Selected topics. Required of all graduate students in physics each semester in residence. Prereq., 15 hrs.

495. THESIS

(1 to 6) Staff

Prereq., permission.

PRINTING ADMINISTRATION

Associate Professor Kinison

11. HAND COMPOSITION AND TYPOGRAPHY (1 to 3) Kinison

A laboratory course in hand composition. It includes the basic operations that are used in general printing. Display composition forms a part of the laboratory exercises. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab.

21. ELEMENTS OF PRESSWORK (1 to 3) Kinison

Includes production problems in the operation of presses, adjustment and care of pressroom machinery, selection and handling of paper, and matching and mixing of inks. Maximum credit in course, 6 hrs. 1 lec. and 4-10 lab.

112. ORGANIZATION OF PRINTING PRODUCTION (4) Kinison

An introduction to the problems involved in commercial printing. It includes, planning, layout, estimating, and scheduling of the complete manufacture of printing projects. 1 lec. and 6 lab. Prereq., 11, 21, or Ind. A. 142.

144. PHOTOLITHOGRAPHY (3) Kinison

Practice in the making of off-set plates of several kinds and operation of the off-set press. Plate making involves the use of the copying camera and the whirler. 6 lab.

PSYCHOLOGY

Professors Lehman, A. C. Anderson,
Patrick (chairman), Scott, Paulsen, Uhrbrock
Associate Professors Pullen, Klare
Assistant Professors Nygaard, Bradshaw,
Storm, Games, G. Johns
Instructor Bowling
Part-time Instructor M. Johns
Assistant Instructor Leety

The major requirement for the A.B. degree is 24 semester hours including 1 or 101, 209, 290, and 6 hours in courses numbered 300 to 399. Not more than 18 hours may be taken in courses numbered 1 to 299, and total hours in psychology courses may not exceed 30. Math. 107 is required at the sophomore level, and undergraduate majors (especially those planning to pursue graduate work in psychology) are advised to prepare themselves in allied fields appropriate to their interests. Especially recommended are language, preferably French and German, and biological sciences, philosophy, and the social sciences, including economics.

1. GENERAL PSYCHOLOGY (3) Staff

An elementary study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Not open to juniors and seniors. (Each semester.)

2. PSYCHOLOGY OF EVERYDAY PROBLEMS (3) Scott

An attempt is made to use the principles of psychology in the solution of the problems and adjustments of everyday life. Prereq., 1. Not open to juniors and seniors. Credit in this course is not allowed toward the major in psychology. (Each semester.)

5. EDUCATIONAL PSYCHOLOGY**(3) Games, Lehman, Patrick, Pullen**

This course aims to give students preparing to teach the fundamental psychological facts and principles concerning maturation, motivation, emotion, and the learning processes in behavior development. Prereq., 1 or 101. Not open to juniors and seniors. (Each semester.)

9. IMPROVEMENT OF READING AND STUDY METHODS**(1) Bradshaw**

Improvement of study and reading habits. Credit not counted toward a degree. (Each semester.)

101. GENERAL PSYCHOLOGY**(3) Staff**

An elementary study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussion. An intensive course not open to freshmen and to students having had Psych. 1. (Each semester.)

103. CHILD PSYCHOLOGY**(3) Lehman**

A study of behavior in infancy and childhood, including a survey of the social, cultural, and biological factors associated with various kinds of child behavior. Prereq., 1 or 101 (Each semester.)

110. PSYCHOLOGY OF ADJUSTMENT**(3) Bradshaw, Pullen**

An introductory study of motivational and inter-personal relations, with special emphasis upon frustration, conflict, and adjustment mechanisms. Prereq., 1 or 101. (1st sem., yearly.)

113. PSYCHOLOGY OF ADOLESCENCE**(2) Bradshaw, Pullen**

A study of the physical growth, glandular changes, and emotions of adolescents. Interests, religious experience, and social adjustment are considered. Prereq., 1 or 101. (Each semester.)

135. PSYCHOLOGY OF ADVERTISING AND SELLING**(3) Anderson**

Applications of psychology of attention, human motives, learning and remembering, imagery, individual likenesses and differences to advertising and selling. Prereq., 1 or 101. (Each semester.)

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN**(2) Lehman, Pullen**

The growth and development of nontypical children. Speech disorders, auditory defects, visual defects, delinquency, psychopathy, special talents and defects are considered. Prereq., 6 hrs. (2nd sem., 1957-58.)

209. EXPERIMENTAL PSYCHOLOGY**(3) Klare, Nygaard**

Training in the scientific methods and techniques of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Prereq., 1 or 101 and a course in statistics. (Each semester.)

231. EMPLOYEE SELECTION AND PLACEMENT**(2) Klare, Paulsen**

Evaluation of tests and other selective devices for employee selection, placement, and promotion in industry. Lecture and laboratory combined. Prereq., 1 or 101 and a course in statistics, or concurrent registration in a course in statistics. (1st sem., yearly.)

233. INDUSTRIAL PSYCHOLOGY (2) Klare, Scott, Uhrbrock

Learning, training, fatigue, motivation, and environmental conditions as they affect the individual's performance. Lecture and laboratory combined. Prereq., 6 hrs. (Each semester.)

290. INTRODUCTION TO PSYCHOLOGICAL MEASUREMENTS (3) Games

The nature and purpose of psychological measurements. Introduction to tests of intelligence, achievement, personality and interest and some practice in test construction, administration, and validation. 2 lec. and 2 lab. Prereq., 1 or 101 and a course in statistics. (2nd sem., yearly.)

301. ADVANCED EXPERIMENTAL PSYCHOLOGY (3) G. Johns, Klare, Nygaard

Research on a topic selected by the student. Prereq., 9 hrs., including 209. (2nd sem., 1959-60.)

303. MENTAL MEASUREMENTS (3) Games, Pullen

The theory, methods, practice and results of intelligence tests. 2 lec. and 1 lab. Prereq., 9 hrs. and a course in statistics. (Each semester.)

307. COMPARATIVE AND GENETIC PSYCHOLOGY (3) G. Johns, Nygaard

Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Prereq., 9 hrs. or 6 hrs. and 6 hrs. zoology. (1st sem., yearly.)

309. MOTIVATION AND EMOTIONS (3) G. Johns, Patrick

The dynamics of animals and human behavior; a study of drives, desires, incentives; a study of emotion in relation to motives. Prereq., 9 hrs. (2nd sem., yearly.)

310. MENTAL HYGIENE (3) Patrick, Pullen

The Dynamics of behavior pathology: The integration and application of motivational, emotional, perceptual, and learning principles to maladjustments including psychoneurosis. Prereq., 9 hrs. (1st sem., yearly.)

312. ABNORMAL PSYCHOLOGY (3) Pullen, Scott

Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes, especially psychosis. Clinics at hospitals. 2 lec. and 1 lab. Prereq., 9 hrs. or 6 hrs. and 6 hrs. zoology. (2nd sem., yearly.)

313. CURRENT PSYCHOLOGICAL LITERATURE (3) Games, Nygaard

The purpose is to give students a critical evaluation of current experimental and theoretical findings in psychological journals and related fields. Prereq., 12 hours and permission. (1st sem., yearly.)

315. SOCIAL PSYCHOLOGY (3) Paulsen, Storm

A study of the behavior of man as influenced by group membership, with emphasis on the individual's interaction as a basis of change of motives, attitudes and personality. Prereq., 9 hrs. and Soc. 1 or 6 hrs. and 3 hrs. sociology. (2nd sem., yearly.)

316. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (2) Bradshaw, Lehman

The extent and the nature of individual differences, and the influence thereupon of such factors as heredity, environment, race, nationality, age and sex. Prereq., 9 hrs. (1st sem., 1958-59.)

317. EXPERIMENTAL SENSORY PSYCHOLOGY (3) Staff

A systematic study of sensory processes, including vision, audition, gustation, olfaction, and somesthesia. Experimental methods, research findings, and theory are emphasized. 2 lec. and 2 lab. Prereq., 15 hours, (1st sem., 1958-59.)

319. PSYCHOLOGY OF PERSONALITY (3) Pullen, Storm

The nature of personality as revealed in interrelations to biological, psychological, and cultural concepts. Prereq., 9 hrs. (1st sem., yearly.)

320. PERSONNEL AND VOCATIONAL COUNSELING (3) Klare, Paulsen

Methods and techniques useful in considering personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 9 hrs. including 231. (2nd sem., yearly.)

325. MINOR PROBLEMS IN PSYCHOLOGY (1 to 3) Staff

Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 9 hrs. and permission. (Each semester.)

335. HISTORY OF PSYCHOLOGY (2) Scott

The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 9 hrs. (1st sem., yearly.)

337. COUNSELING AND PSYCHOTHERAPY (3) Patrick, Pullen

Analysis of theory and practice in counseling and psychotherapy. Prereq., 9 hrs. (2nd sem., yearly.)

341. PSYCHOLOGY OF COMMUNICATION (3) Klare

A psychological approach to the process of communication, with applications to problems in the social sciences. Prereq., 12 hrs. and permission. (1st sem., yearly.)

351. SEMINAR IN PSYCHOLOGICAL PROBLEMS IN INDUSTRY (3) Uhrbrock

Consideration of problems of selection, placement, motivation, development and evaluation of employees; with emphasis on job analysis, interviewing, testing, rating and attitude evaluation as related to worker satisfaction, fatigue and productivity. Prereq., 6 hrs., statistics, and permission. (Each semester.)

353. LEARNING AND MEMORY (3) Anderson, Nygaard

A study of methods and basic data in the areas of conditioning, discrimination learning, problem solving, habit formation, and memory. 2 lec. and 2 lab. Prereq., 9 hrs. (1st sem., yearly.)

401. SYSTEMS OF PSYCHOLOGY (3) G. Johns, Nygaard

A critical analysis and comparison of modern and contemporary psychological theory. Prereq., 15 hrs. and permission. (2nd sem., 1958-59.)

402. PERCEPTION (3) Klare, Storm

The psychological principles of perception involving the study of impersonal (time, space, motion) and personal (social) phenomena. Prereq., 15 hrs. (2nd sem. 1958-59.)

406. AN INTRODUCTION TO PSYCHODIAGNOSIS (3) Patrick, Pullen

A survey and practice of methods and techniques in diagnosing and evaluating personality disorders. Prereq., 303 and 310 or 312. (2nd sem., yearly.)

407. CLINICAL PSYCHOLOGY

(3) Patrick, Pullen

The theory and use of clinical methods including interviewing, observation, case documentation, professional problems, and individual testing. Prereq., 337. (1st sem. 1959-60.)

419. THEORIES OF PERSONALITY

(3) Storm

A critical consideration of the theories of personality structure and origin. Prereq., 315 and 319. (2nd sem. 1958-59.)

421. PRACTICUM IN PERSONNEL AND VOCATIONAL COUNSELING

(3) Klare, Paulsen

A course designed to provide experience in personnel and vocational counseling. The work will include the handling of counseling cases, discussion of cases, and readings. Prereq., 320. (1st sem., 1959-60.)

423. RESEARCH METHODS AND TECHNIQUES

(2) Klare, Paulsen

Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (1st sem., yearly.)

427. ADVANCED PERSONNEL PSYCHOLOGY

(3) Klare, Paulsen

The integration of facts and theories from various areas of psychology as applied to personnel problems in education, business and industry. Prereq., 320. (2nd sem., 1958-59.)

432. ADVANCED SOCIAL PSYCHOLOGY

(3) Staff

A summary of the main theoretical and substantive trends in contemporary social psychology, with emphasis upon the role of small group theory and research. Prereq., 315. (2nd sem., 1959-60.)

454. LEARNING THEORY

(3) Anderson, Nygaard

Lectures and readings covering theoretical works in the field of learning. Prereq., 15 hrs. including 353. (2nd sem. 1958-59.)

471. QUANTITATIVE METHODS I

(3) Games

General topics of measurements including psychophysics methods, scaling techniques, correlational and experimental design analyses. 2 lec. and 2 lab. Prereq., 290 or equivalent. (2nd sem., 1957-58.)

472. QUANTITATIVE METHODS II

(3) Games

A continuation and extension of Quantitative Methods I. 2 lec. and 2 lab. Prereq., 471. (2nd sem., 1959-60.)

481. RESEARCH IN PSYCHOLOGY

(1 to 6) Staff

Prereq., 15 hrs. and permission.

494. ADVANCED SEMINAR IN PSYCHOLOGY

(2 to 4) Staff

Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission. (2nd sem., yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission.

RADIO-TELEVISION

Associate Professors Jukes, Turnbull, Baird
 Assistant Professors Baxter, Greer
 Instructors F. C. Johnson, Saunders
 Station Engineer Tompkins

- 47. RADIO WORKSHOP—ENGINEERING SECTION*** (1 or 2) Jukes, Tompkins
 Technical work connected with radio broadcasting. Practice in control room technique, remote pick-up, tape recording, transmission lines and station maintenance. Maximum credit in course, 4 hrs. Prereq., permission.
- 79. INTRODUCTION TO RADIO-TV** (2) Baird, Greer
 The development of radio and television. Attention given to American and foreign systems, mechanics of broadcasting, FCC rules, networks, advertising, and public service programs.
- 105. RADIO BROADCASTING MECHANICS** (2) Jukes, Tompkins
 Brief study of the apparatus used in radio broadcasting, including microphones, amplifiers, studio acoustics, control room, transmission lines, radio transmitter, and antenna. 1 lec. and 2 lab.
- 147. RADIO WORKSHOP*** (2) Johnson
 Rehearsal, performance, and technical work connected with radio broadcasting. Maximum credit in course, 4 hrs. Prereq., 6 hrs. in radio and permission.
- 180. RADIO SPEECH** (3) Greer, Johnson
 Microphone technique, pronunciation problems. Practice in reading various types of materials. 1 lec. and 2 lab. Prereq., Speech 2.
- 225-226. RADIO PRODUCTION** (3-3) Greer
 Radio techniques, sources of radio material, editing and preparation of radio play scripts, use of sound effects. Practice work in the University station. 1 lec. and 4 lab. Prereq., 180.
- 247. ADVANCED RADIO WORKSHOP*** (2) Greer
 Rehearsal, performance, and technical work connected with radio broadcasting. Maximum credit in course, 4 hrs. Prereq., 8 hrs. in radio, including 147.
- 280. RADIO-TV NEWS WRITING AND EDITING** (2) Baxter
 (Same as Jour. 280) The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., Jour. 107.
- 285. RADIO-TV NEWS PRACTICE** (2 or 3) Baxter
 (Same as Jour. 285) A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over WOUB and WOUI, AM and FM. Maximum credit in course, 6 hrs. Prereq., 280.
- 301. PRINCIPLES OF TELEVISION PRODUCTION** (3) Johnson
 History of television, its impact upon society and other media of communication, production aspects of television, general principles of transmission and reception. Prereq., junior standing, 10 hrs. in radio, and permission.
- 302. TELEVISION PRODUCTION LABORATORY** (2) Johnson
 Laboratory experience in the production of basic television program types. The problems of camera, audio pick-up, and floor managing as they relate to the formats of specific television productions. Prereq., 301.

*Credit in the three workshops (47, 147, 247) is limited to a total of 10 hours, with not more than 4 hours in any one.

309. RADIO-TV ADVERTISING AND MANAGEMENT (3) Turnbull
(Same as Jour. 309) A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and TV station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.
316. CONTINUITY WRITING (2) Johnson
Writing of scripts including continuity, straight and dramatized commercials, original and short sketches and stories. Prereq., 12 hrs. radio and journalism, or 12 hrs. English, and junior standing.
331. DIRECTING FOR TELEVISION (3) Greer
Analysis and application of the theory and techniques of directing for television with special attention to the problems involved in the basic formats. 2 lec. and 4 lab. Prereq., 301, 302 or equivalent.
332. DRAMATIC PRODUCTION FOR TELEVISION (3) Johnson
Television techniques as they apply to the dramatic form. Rehearsal, performance, and technical work connected with the production of the dramatic script. 2 lec. and 4 lab. Prereq., 301, 331, or Dram. A. 299, 350.
375. PROGRAM PLANNING AND BUILDING (3) Greer
A thorough study of all aspects of radio station operation with particular reference to programming, costs, staff, program building and series planning. Case study of a specific situation. Prereq., senior standing, 225-226, 309 or equivalent.
385. RADIO AND TELEVISION IN EDUCATION (3) Johnson
The use of educational radio and television programs in the classroom and in the home. Study of the problems in broadcasting and televising high school and college courses. Practical applications in setting up programs. Prereq., 12 hrs. Radio-TV or 12 hrs. Education and permission.
483. SEMINAR IN RADIO AND TELEVISION (3) Jukes
Individual projects and advanced research in production problems, music, directing, writing, announcing and the evaluation of radio and television programs. Special emphasis on the problems and the potentialities of educational television. Prereq., 12 hrs., permission.
484. SEMINAR IN TELEVISION PRODUCTION (3) Jukes
Current literature and advanced research in television production problems. Individual reading projects and use of laboratory facilities for research of an exploratory or experimental nature. Class discussions and reports. Prereq., 301, 302, and permission.
494. RESEARCH (1-12) Staff
Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.
495. THESIS (1 to 6) Staff
Prereq., permission.
- Suggested courses: Dramatic Art (see page 188), Speech and Speech Correction (see page 279), E.E. 103-104—Basic Electrical Engineering, E.E. 325—Acoustics, Mus. 5—Music Appreciation, Jour. 375—Specialized Journalism.

RESERVE OFFICERS' TRAINING CORPS

Professor James R. Patrick, Coordinator

AIR SCIENCE

Professor of Air Science: Lieutenant Colonel Moberly

Assistant Professors: Captains Falkner, Irvin, Hopkins, Wood,
Lieutenants Wiegand, Zimmerman

Instructors and Administrative Assistants:

Master Sergeants Ward, Cargill

Technical Sergeants Scarmack, Feagin, Cornele

Airman First Class Lindsay

1, 2. BASIC COURSE

(2, 2) Staff

Introduction to the eight-semester AFROTC Program and the advantages of flight training. Introduction to aviation. Fundamentals of global geography. International tensions and security structures. Instruments of national military security. Basic military and leadership training (laboratory). Three hours a week. Prereq., permission.

101, 102. BASIC COURSE

(2, 2) Staff

Introduction to Air Science 101 curriculum. Elements of aerial warfare: introduction to aerial warfare; targets, weapons, delivery aircraft. Elements of aerial warfare: the air ocean, bases, forces. Careers in the Air Force. Leadership training (laboratory). Three hours a week. Prereq. Basic Air Force 1, 2.

221, 222. ADVANCED COURSE

(3, 3) Staff

Introduction to Advanced AFROTC. The Air Force commander and his staff. Problem solving techniques. Communicating in the Air Force. Instructing in the Air Force. The military justice system. Applied air science, aerodynamics and propulsion, navigation, weather. Air Force base functions. Leadership training (laboratory). Five hours a week. Prereq., completion of basic Air Force courses and selection for the Advanced Air Force course.

AFROTC SUMMER CAMP

(3) Camp and Air Base Staff

A four-week training program conducted on an Air Force base between the junior and senior years, consisting primarily of orientation to base facilities with some classroom work to make practical application of courses covered in the freshman, sophomore and junior years and also to provide opportunity for life under military conditions.

Instruction includes physical training, familiarization flying, USAF base activity and equipment, individual weapons, drill, field exercises, air base problems. Prereq., Advanced Air Force 221, 222.

251, 252. ADVANCED COURSE

(3, 3) Staff

Critique of summer camp. Introduction to the Advanced Course, leadership seminar. Career guidance. Military aspects of world political geography. Military aviation and the art of war. Briefing for commissioned service. Leadership training (laboratory). Five hours a week. Prereq., 221, 222, 251.

MILITARY SCIENCE AND TACTICS

Professor of Military Science and Tactics: Lieutenant Colonel Andrews
 Assistant Professors: Major Catlin; Captains Roberts, Bellomo, Sherman
 Instructors: Sergeants Crandall, Canter, Allen, Saffle, Clem,
 Eintracht, Robeysek

1, 2. BASIC MILITARY SCIENCE I (2, 2) Staff

Organization of the Army and ROTC, individual weapons and marksmanship. American military history, school of the soldier and exercise of command. Three hours a week.

101, 102. BASIC MILITARY SCIENCE II (2, 2) Staff

Map and aerial photograph reading to include application of the basic principles; functioning and tactical use of infantry crew-served weapons; school of the soldier and exercise of command. Three hours a week. Prereq., MS 1, 2.

221, 222. ADVANCED MILITARY SCIENCE III (3, 3) Staff

Leadership, military teaching methods; organization, functions, and missions of the arms and services, small unit tactics and communications, school of the soldier and exercise of command. Five hours a week. Prereq., two years of basic course or one year of active duty and by permission of the P. M. S. T.

SUMMER ROTC CAMP (3) Camp Staff

A six-week training program to be conducted at an Army post, camp or base. Summer training will supplement instruction given in Military Science courses 221, 222, 251, and 252 with practical work in weapons and marksmanship, interior guard, maps and photographs, tactical exercises, signal communications, operation under field conditions and specialized training. Particular emphasis is placed on the development of leadership, character and the student's capability to function effectively in small unit combat operations, as may be required of any officer regardless of branch. Prereq., Advanced Military Science 221 and 222.

251, 252. ADVANCED MILITARY SCIENCE IV (3, 3) Staff

Command and staff, military intelligence, training management, logistics, military administration, personnel management, military justice, role of the United States in world affairs, exercise of command. Prereq., Advanced Military Science 221, 222 and by permission of the P. M. S. T.

ROMANCE LANGUAGES

Professors Wilkinson, Ondis
 Associate Professors Renkenberger, Rice (chairman)
 Assistant Professor Cameron
 Instructor Bolen
 Acting Instructor Kreps

The major requirement in French, Italian, or Spanish for the A.B. degree is 20 hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 hours above course 1-2 in one language and at least one year in each of two other Romance languages.

FRENCH

1-2. BEGINNING FRENCH (4-4) Staff

Pronunciation, essentials of grammar, oral practice, and reading. (Yearly.)

- 101-102. INTERMEDIATE FRENCH (4-4) Staff
 Conversation, composition, grammar review, and varied readings.
 Prereq., 2 or 2 yrs. high school French. (Yearly.)
- 213, 214. FRENCH CONVERSATION (3, 3) Bolen
 Prereq., 102 or 4 yrs. high school French. (Yearly.)
- 243-244. FRENCH COMPOSITION (2-2) Wilkinson
 Prereq., 102. (1958-59.)
- 301, 302. SURVEY OF FRENCH LITERATURE (3,3) Renkenberger
 A general view of French literature from the beginning. Special topics for investigation by advanced students. Collateral readings and reports. Prereq., 102, or 4 yrs. high school French. (1959-60.)
- 303, 304. READINGS FROM FRENCH LITERATURE (3, 3) Staff
 Selections vary with the needs of the class or the student. Prereq., 102. (Given upon sufficient demand.)
328. SIXTEENTH CENTURY FRENCH LITERATURE (3) Rice
 Development of French thought during the Renaissance. Prereq., 6 hrs. beyond 102. (Given upon sufficient demand.)
- 331, 332. SEVENTEENTH CENTURY FRENCH LITERATURE (3, 3) Rice
 Prereq., 102, or 4 yrs. high school French. (1958-59.)
- 335, 336. EIGHTEENTH CENTURY FRENCH LITERATURE (3, 3) Renkenberger
 Prereq., 102. (1958-59.)
381. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1 to 4) Staff
 A course designed to promote independent work in the study of special linguistic and literary problems. Maximum credit in course, 6 hrs. Prereq., 12 hrs. beyond 102 and permission. (Given upon sufficient demand.)
495. THESIS (1 to 6) Staff
 Prereq., Permission.

ITALIAN

- 1-2. BEGINNING ITALIAN (4-4) Staff
 Pronunciation, grammar, and practice in the language.
- 101-102. INTERMEDIATE ITALIAN (4-4) Staff
 Review of grammar and reading in modern Italian. Prereq., 2 or 2 yrs. high school Italian.
- 301, 302. SURVEY OF ITALIAN LITERATURE (3, 3) Staff
 Prereq., 102. (Given upon sufficient demand.)
- 303, 304. READINGS FROM ITALIAN LITERATURE (3, 3) Staff
 Selections may vary with the needs of the class. Prereq., 102. (Given upon sufficient demand.)
371. ADVANCED ITALIAN (1 to 4) Staff
 Advanced work in language and literature. Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102. (Given upon sufficient demand.)
495. THESIS (1 to 6) Staff
 Prereq., permission.

ROMANCE PHILOLOGY

325-326. GENERAL ROMANCE LINGUISTICS (2-2) Wilkinson
Introduction to graduate courses in philology. Prereq., Fr., It., Lat., or Sp. 102. (Given upon sufficient demand.)

421-422. ROMANCE PHILOLOGY (OLD FRENCH) (2,2) Ondis
Prereq., 16 hrs. in French and 16 hrs. in another Romance language or Latin. R. Philol. 326 is advised but not required. (Given upon sufficient demand.)

441-442. ROMANCE PHILOLOGY (OLD SPANISH) (2-2) Ondis
Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. R. Philol. 326 is advised but not required. (Given upon sufficient demand.)

495. THESIS (1 to 6) Staff
Prereq., permission.

SPANISH

1-2. BEGINNING SPANISH (4-4) Staff
Pronunciation, oral practice, essentials of grammar, and reading. (Yearly.)

101-102. INTERMEDIATE SPANISH (4-4) Staff
Conversation, composition, grammar review, and varied readings, Prereq., 2 or 2 yrs. high school Spanish. (Yearly.)

213, 214. SPANISH CONVERSATION (3,3) Cameron
Prereq., 102.

301, 302. SURVEY OF SPANISH LITERATURE (3,3) Staff
Historic and literary study of Spain from the Middle Ages to the present time. Prereq., 102. (1959-60.)

303, 304. READINGS FROM SPANISH LITERATURE (3,3) Staff
Selections vary with the needs of the class and the student. Prereq., 102. (Given upon sufficient demand.)

305, 306. THE SPANISH DRAMA (3,3) Ondis
Sp. 305 traces the drama in Spain from its origins to 1700; Sp. 306, from 1700 to the present. Prereq., 102 or 4 yrs. high school Spanish. (1959-60.)

315, 316. THE SPANISH NOVEL (3,3) Ondis
Sp. 315 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 316, the Spanish novel from 1700 to the present. Prereq., 102, or 4 yrs. high school Spanish. (1958-59.)

351, 352. ADVANCED SPANISH GRAMMAR (3,3) Ondis
Peculiarities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. Prereq., 102, or 4 yrs. high school Spanish. (1959-60.)

381. RESEARCH IN SPANISH LANGUAGE AND LITERATURE (1 to 4) Staff
Prereq., 12 hrs. beyond 102 and permission. Maximum credit in courses, 6 hrs.

495. THESIS (1 to 6) Staff
Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

RUSSIAN

Assistant Professor Benson

1-2. BEGINNING RUSSIAN (4-4) Benson

Pronunciation, the writing system, grammar, and conversation. Simple prose. (Yearly.)

101-102. INTERMEDIATE RUSSIAN (4-4) Benson

Prose readings. Grammar review and conversation. Prereq., 2. (Yearly.)

201-202. ADVANCED RUSSIAN (2-2) Benson

Literary prose and drama. Advanced conversation. Prereq., 102. (Yearly.)

271. SPECIAL READINGS IN RUSSIAN (1 to 3) Benson

Assigned readings, adapted to the individual needs of the student. Maximum credit in course, 6 hours. Prereq., 202 and permission. (Yearly.)

SCULPTURE—See Art**SECRETARIAL STUDIES**

Associate Professor Sponseller (chairman)
Assistant Professors Via, Appel, Weaver
Instructor Murrell

15. BEGINNING TYPEWRITING (2) Via, Weaver

Development of basic skill on the typewriter and application of this skill to the more common typing practices. Achievement standard—30 words per minute. 5 hours a week; 1 hour arranged. Prereq., not open to those who have had high school typewriting.

16. INTERMEDIATE TYPEWRITING (2) Appel

Development of further basic skill in the operation of the typewriter and quantity production of business forms. Achievement standard—45 words per minute. 5 hours a week; 1 hour arranged. Prereq., 15 with a scholastic average of 2.0 or one year high school typewriting.

31. BEGINNING SHORTHAND (3) Appel, Via, Weaver

Theory of Gregg Simplified shorthand. Development of ability to take dictation. Achievement standard—60 words per minute on new material. 4 hours a week. Prereq., 15 or with 15; not open to those who have had high school shorthand.

32. INTERMEDIATE SHORTHAND (3) Appel, Via, Weaver

Increasing the student's ability to take dictation. Achievement standard—80 words per minute on new material. 4 hours a week. Prereq., 31 with a scholastic average of 2.0 or one year high school shorthand; 16 or with 16.

111. ADVANCED TYPEWRITING (2) Staff

Development of speed and accuracy in the production of related typewriting office problems. Achievement standard—60 words per minute, 5 hours a week; 1 hour arranged. Prereq., 16 with a scholastic average of 2.0 or two years high school typewriting.

151. BEGINNING DICTATION AND TRANSCRIPTION (3) Appel, Via, Weaver

Increasing dictation rates and developing transcription techniques. Achievement standards—100 words per minute on new material; 25-word-per-minute transcription rate. 5 hrs. a week. Prereq., 111 and 32 with scholastic average of 2.0 or two years high school shorthand.

152. ADVANCED DICTATION AND TRANSCRIPTION (3) Appel
Achievement standards—120 words per minute on new material; 35-word-per-minute transcription rate. 5 hours a week. Prereq., 151 with a scholastic average of 2.0.
153. SPECIALIZED DICTATION AND TRANSCRIPTION (3) Via
Development of greater speeds and of vocabulary other than that required by an ordinary business office. 5 hours a week. Prereq., 152 with a scholastic average of 2.0.
172. FILING SYSTEMS AND PROCEDURES (1) Staff
Various filing procedures and their applications. 2 hours lec. and 1 hour lab. a week. Prereq., 16.
173. MACHINE TRANSCRIPTION (1) Staff
Development of skill in the use of machine transcribers. 1 hour lec. and 2 hours lab. a week. Prereq., 16.
180. OFFICE MACHINES (2) Staff
Training in the solution of the more common mathematical business office problems on key-driven and crank-driven calculators. Instruction on accounting, dictating, and duplicating machines. 5 hours a week.
181. OFFICE PROCEDURES (2) Via
Application of skills to solution of typical office problems and procedures. 5 hours a week. Prereq., 180, 16, and Acct. 75.
220. BUSINESS COMMUNICATIONS (3) Sponseller
Application of English in the writing of effective business letters and reports for typical business situations. Prereq., Eng. 4, junior or senior rank.
261. TEACHING OF BUSINESS SUBJECTS (3) Appel
Principles and procedures of teaching business subjects at the secondary level with emphasis in the areas of general business education and vocational business education. Prereq., junior rank, major or minor in Business Education.
275. SECRETARIAL PRACTICE (3) Sponseller
Students spend 5 hours a week working in offices on the campus and 2 hours a week in conference. Prereq., 151, 172, 173, 181.
285. OFFICE MANAGEMENT (3) Weaver
Application of the principles of scientific management to office work and a study of the organization and work for which the office manager is responsible. Prereq., Ec. 12, junior rank, or permission.
335. COMMERCIAL CURRICULUM CONSTRUCTION (2) Appel
Principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.
387. RESEARCH IN BUSINESS TEACHING PROBLEMS ((1 to 8) Weaver
Prereq., 20 hrs. commerce, senior rank, and permission.
391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2-4) Weaver
Maximum credit in course, 10 hrs. Prereq., 20 hrs. commerce and permission.
437. ADMINISTRATION IN BUSINESS EDUCATION (3 to 6) Sponseller
Problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

SOCIAL SCIENCE—See General Studies**SOCIOLOGY**

Associate Professors Jeddelloh, Harlan (chairman)
 Assistant Professors Worstell, Eggers, Park

The courses in the Department of Sociology represent the following areas of teaching and research interest: social institutions and social change; social psychology and collective behavior; population and ecology; cultural anthropology; criminology and juvenile delinquency; and pre-professional social work.

The major requirement for the A.B. degree is a minimum of 28 semester hours, which must include the following courses: 1-2 or 101; 201-202; 301 or 303; 330; 375. In criminology and juvenile delinquency and in pre-professional social work the requirement is 34 semester hours, which must include the above courses plus 133 and 339. (See pages 111 and 113 for descriptions of these curricula.)

In fulfilling the degree requirements of the College of Arts and Sciences, it is recommended that major students register for the following courses: in the natural sciences, Zoology 3-4 and Mathematics 107; in the humanities, English 293.

SOCIOLOGY**1-2. GENERAL SOCIOLOGY****(3-3) Staff**

Basic introduction to the major fields of sociology. Soc. 1 deals with the nature of culture and cultural behavior, and with the characteristics of communities in primitive and modern societies. Soc. 2 deals with personality development and the social conduct of the individual, and with social institutions and social change. Should be taken in sequence. Not open to juniors and seniors. (Each sem.)

101. PRINCIPLES OF SOCIOLOGY**(3) Staff**

A one-semester basic course for students unable to take 1 and 2, covering the same fields at a more rapid pace, with greater emphasis upon individual reading. No credit for students who have taken 1 or 2. Not open to freshmen. (Each sem.)

103. READINGS IN SOCIOLOGY**(1) Staff**

Independent reading of selected major treatises and research monographs in a specific field of sociology chosen by the student, under the guidance of a staff member. Prereq., 1 and 2, or 101. (Each sem.)

104. URBAN COMMUNITIES**(3) Jeddelloh**

Development of modern cities; demographic, economic, and social characteristics; ecological processes and social organization; the nature of urbanism; city planning. Prereq., 3 hrs. (2nd sem., yearly.)

105. SOCIAL ANTHROPOLOGY**(3) Park**

Human origins, prehistoric cultures, early civilizations; contemporary primitive societies; major culture areas. Methods of anthropological research. Prereq., 3 hrs. (1st sem., yearly.)

201. ELEMENTARY RESEARCH TECHNIQUES**(2) Staff**

A laboratory course in the skills and procedures of scientific method in the study of society. Study design, schedule and scale construction, interview methods; graphic representation; analysis and organization of data. May be taken concurrently with 101 by upperclassmen. (1st sem., yearly.)

202. FIELD STUDIES IN SOCIOLOGY

(2) Staff

Planning and execution of an empirical study of interest to the student, utilizing the knowledge and skills developed in 201. Limited class meetings; conferences with instructor; formal report of study. Prereq., 201. (Yearly.)

207. EDUCATIONAL SOCIOLOGY

(3) Jeddleloh

Sociological study of the school as a social institution; its relation to the community; development of the child; sociological aspects of learning and teaching. Prereq., 3 hrs. or permission. (2nd sem., yearly.)

209. INTRODUCTION TO THE STUDY OF POPULATION

(3) Staff

Growth and distribution of population; birth and death rates; migration; the labor force; control of population; demographic methods. Prereq., 6 hrs. in social sciences. (2nd sem., 1958-59.)

210. SOCIAL BEHAVIOR

(3) Eggers, Harlan

Social-psychological development of the individual; the emergence of role-taking abilities and self-concepts in social interaction; the function of language in conduct. Prereq., 6 hrs. sociology or psychology, or H. Ec. 5 and 6. (1st sem., yearly.)

211. RACE AND CULTURE CONTACTS

(3) Park

The conflict, accommodation, and assimilation of racial and ethnic groups; individual and collective status and experience arising in the contacts of peoples of diverse cultures. Prereq., 3 hrs. sociology or 9 hrs. social sciences. (2nd sem., yearly.)

220. SOCIAL PROBLEMS

(3) Jeddleloh

Intensive study of a limited number of major social problems as they affect the person, family, community, and nation. Group projects and discussions. Prereq., 6 hrs. in social sciences. (1st sem., yearly.)

229. CROWD, MASS, AND PUBLIC

(3) Harlan

Individual and group behavior under conditions of social unrest and suggestibility; characteristics of these groups, their stages of development and types of action. Prereq., 6 hrs. in social sciences. (1st sem., 1958-59.)

260. MARRIAGE AND THE FAMILY

(3) Eggers

The family as a basic institution in various cultures; courtship, marriage, and family relationships in American society; family disorganization; the development of marriage counseling. Prereq., 6 hrs. in social sciences. (1st sem., yearly.)

301. SOCIAL RESEARCH METHODS

(2) Staff

Principles of scientific method; theoretical and practical problems of research design; statistical and other methods of data analysis. Should precede or be taken in conjunction with 381 or 495. Prereq., 8 hrs., and Math. 107, Stat. 155, or Educ. 381. (1st sem., 1959-60.)

303. SOCIOLOGICAL THEORY

(2) Staff

Origins and development of sociology; major European and American contributors; current trends and the status of specialized fields of interest. Prereq., 6 hrs. (2nd sem., yearly.)

307. VOLUNTARY ASSOCIATIONS

(3) Harlan

The origins, social composition, and functions of informal and quasi-institutional groups such as lodges, veterans' organizations, service clubs, and sports and hobby clubs, as typical forms of association in contemporary society. Prereq., 6 hrs. (2nd sem., 1959-60.)

311. CRIMINOLOGY AND PENOLOGY

(3) Jeddelloh

An introduction to modern criminology and the correctional treatment of offenders. Field visits to courts and correctional institutions. Prereq., 6 hrs. (1st sem., yearly.)

315. FOLK COMMUNITIES

(3) Park

Comparative study of primary village communities in various societies; the impact of Western technology and institutions; the disorganization of folk cultures. Prereq., 10 hrs. (2nd sem., 1958-59.)

316. CULTURE AND CIVILIZATION

(3) Park

Anthropological and sociological analysis of the concept "civilization" and of the transformation of social life which it represents. Consideration of selected civilizations outside the main course of Western history, with emphasis on their characteristic ethos and social institutions. Prereq., 10 hrs. (2nd sem., 1959-60.)

320. INDUSTRIAL SOCIOLOGY

(3) Staff

Work groups and large business firms as social systems: worker-union-management relations; leadership; decision-making. Review of research in human relations in industry. Prereq., 9 hrs. in social sciences. (2nd sem., 1959-60.)

321. CONTEMPORARY SOCIAL MOVEMENTS

(3) Harlan

Characteristics and objectives of various types of social movements; reform and revolution; leaders, ideologies, tactics; case studies of typical movements. Prereq., 9 hrs. in social sciences. (2nd sem., 1958-59.)

322. JUVENILE DELINQUENCY

(3) Jeddelloh

Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field visits. Prereq., 9 hrs. sociology or psychology. (2nd sem., yearly.)

325. PERSONALITY AND SOCIETY

(3) Harlan

Survey of current systematic knowledge of child-rearing practices and parent-child relationships in various cultures and social classes, and of their consequences for the personality development of the child. Prereq., 12 hrs. sociology or psychology. (2nd sem., 1958-59.)

326. DYNAMICS OF INTERPERSONAL RELATIONS

(2) Eggers

Analysis of episodes of group interaction; role-playing as an experimental device in the study of interpersonal relations; theories concerning the development of competence in interpersonal relations. Prereq., 210, or 9 hrs. psychology. (2nd sem., yearly.)

330. CURRENT SOCIOLOGICAL LITERATURE

(1) Staff

Familiarization with the scope and types of professional literature of sociology and related fields. Professional organizations and activities; advanced training and employment requirements. Prereq., 9 hrs. (Each sem.)

336. PUBLIC OPINION AND MASS COMMUNICATIONS

(3) Harlan

The processes of opinion formation; relation to public policy decisions; public opinion polls; organization and control of mass media; nature and effects of propaganda. Prereq., 9 hrs. social sciences. (2nd sem., yearly.)

350. SPECIAL STUDIES IN SOCIOLOGY (1-4) Staff

Guided readings in special topics in sociology not included in the current departmental curriculum, in one or more of the following areas: a. Social Organization, b. Social Psychology, c. Collective Behavior, d. Physical Anthropology, e. Cultural Anthropology, f. Demography and Ecology, g. Criminology and Delinquency, h. Social Work. Abstracts of readings, discussions with instructor, final essay. Maximum credit in course, 4 hrs.; in any one area, 2 hrs. Prereq., 12 hrs., permission. (Each sem.)

370. IN-SERVICE TRAINING (1 to 3) Staff

Individually-arranged work experience under responsible supervision; advance planning and departmental approval; periodic reports. Prereq., 12 hrs.; junior and senior majors. (Summer only.)

375. SENIOR SEMINAR (2) Staff

Required of all senior majors in last semester of residence. Includes comprehensive examination covering required courses and electives submitted for major. Prereq., 28 hrs. completed or in progress. (2nd sem., yearly.)

381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3) Staff

Individual research; may be coordinated with other student or staff research. Maximum credit in course, 6 hrs. Prereq., 12 hrs. and permission. (Each sem.)

470. INTERNSHIP (3 to 6) Staff

Full-time placement for research and training in positions in juvenile courts, business and industrial firms, governmental agencies, etc. 3-6 months. Prereq., candidacy for M.A. degree. (Yearly.)

491. SEMINAR (3) Staff

Topic announced each term. Maximum credit in course, 6 hrs. Prereq., 15 hrs.

495. THESIS (1 to 6) Staff

Prereq., permission.

SOCIAL WORK**102. THE SOCIAL SECURITY SYSTEM (2) Worstell and others**

Historical development and current provisions of the Social Security Act and other income security programs as established by law, and their significance in contemporary American life; comparisons with the social security systems of other nations. (Each sem.)

133. SOCIAL WORK IN THE AMERICAN COMMUNITY (3) Worstell

A survey of the social services as they are administered through public and voluntary agencies, including historical and philosophical growth and development. Field trips and individual projects arranged. Prereq., 3 hrs. (Each sem.)

234. CHILD WELFARE (3) Worstell

Legislation regarding child care and protection; services for children in their own homes, foster homes, and institutions. Case materials illustrating services and resources. Prereq., 133, or 6 hrs. psychology, home economics, or education. (Each sem.)

248. SOCIAL GROUP WORK (2) Worstell

Principles, methods, and types of group work; agencies sponsoring group work programs. Student responsible for participation or leadership in a group work project. Prereq., 133. (2nd sem., 1958-59.)

250. COMMUNITY PLANNING FOR SOCIAL WELFARE (2) Worstell

The planning, organization, and development of welfare services in the community; operation and functions of community chests, councils of social agencies, and similar organizations. Prereq., 133. (2nd sem., 1959-60.)

339. INTRODUCTION TO SOCIAL CASE WORK (3) Worstell

The development of social case work; analysis of basic principles; problems and methods as seen in theoretical and case material. Prereq., 133, 234, and specific consent of the instructor. (Each sem.)

341. FIELD SERVICES (2) Worstell

In-service observation of agency functions and methods; assignment to specific work responsibilities; conferences with training supervisor. Two afternoons each week. Maximum credit in course, 4 hrs. Prereq., 339 and specific consent of the instructor. (Each sem.)

SPANISH—See Romance Languages**SPEECH AND SPEECH AND HEARING THERAPY**

Professors Staats, Kantner, Andersch, A. C. LaFollette
Associate Professor Jukes
Assistant Professors C. Lane, Wiseman, Hahne, Penson,
Ludlum, Catalano, Watkins, Ham, Greer
Instructors Trisolini, Reyes, F. C. Johnson,
Boros, Feidner, Saunders
Part-time Instructor C. L. Lane

SPEECH**1. FUNDAMENTALS OF SPEECH (1) Andersch, Staff**

Study and practice of basic techniques for effective participation in everyday speaking situations. 1 lec. and 1 lab.

2. VOICE AND ARTICULATION (2) LaFollette, Staff

Designed to help each student discover and remedy his vocal and articulatory problems. Group drills and individual instruction. Special attention given to pronunciation problems.

3. PUBLIC SPEAKING (2) Staats, Staff

Principles of public speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Prereq., 1 or proficiency test.

25. PRINCIPLES OF ARGUMENTATION (2) Staats, Wiseman, Ludlum, Watkins

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE

(3) Hahne, Catalano, Trisolini, Reyes

Techniques in interpretation, development of adequate intellectual and emotional responsiveness to the meaning of literature; study of literature adapted to oral interpretation; drill in reading aloud; preparation of programs. Prereq., 2 or 3.

104. BASES OF SPEECH (3) Kantner

Scope, purposes and interrelationships of the component areas in the general field of speech. The physiological, phonetic, psychological and semantic bases of speech. Prereq., Sophomore standing; major in Dramatic Art and Speech.

110. PARLIAMENTARY PROCEDURE (1) Staats, Ludlum

Prereq., 1 or proficiency test.

112. ADVANCED PUBLIC SPEAKING (2) Wiseman, Ludlum

Extended study and application of the principles of public speaking with emphasis on content and organization. Preparation and delivery of various types of speeches of substantial length. Prereq., 3 or permission.

147. WORKSHOP IN SPEECH (1 or 2) Staff

A. Public Address. Preparation and delivery of speeches and readings for local, state and national contests and/or intercollegiate debate. Maximum credit in course, 6 hours. Prereq., permission.

B. Choric Interpretation. Application of the principles of oral interpretation to group presentation. Laboratory experience. Maximum credit in course, 2 hours. Prereq., 34.

205. DYNAMICS OF GROUP DISCUSSION (3) Wiseman

Study and practice of the principles and techniques of group discussion as an integral part of the democratic pattern of living. Emphasis on the functions of discussion in public relations and as a method of instruction.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH (3) Andersch

Organization of curricular and co-curricular speech and dramatic activities; analysis of available materials; methods of casting, staging, and producing plays; problems in the coaching of debate and oratory. Prereq., junior standing, major or minor in dramatic art and speech.

303. ADVANCED ORAL INTERPRETATION (3) Trisolini, Hahne

A study of the principles of types of literature from the standpoint of the oral interpreter. Emphasis on the development of skill in the interpretation of various forms of poetry, prose, and dramatic literature. Prereq., 34.

305. PROBLEM SOLVING THROUGH GROUP DISCUSSION (3) Wiseman

Social responsibility, ethical problems and standards; application of the principles of general semantics and group dynamics; purposes, types, and methods of discussion; frequent class practice. Prereq., junior standing.

309. CLASSICAL RHETORICAL THEORY (3) Staats

The principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Speeches of eminent orators are analyzed. Prereq., F. A. 203-204 or permission.

325. DIRECTION OF FORENSIC PROGRAMS (3) Wiseman, Ludlum

Organization of forensic programs in high schools and colleges, management of inter-school contests and tournaments, coaching of debate, discussion and individual events, and principles of judging. Practical application in the university forensic program. Prereq., 25, 305 or equivalent.

333. ORAL INTERPRETATION OF DRAMATIC LITERATURE (3) Trisolini

A study of the principles of drama from the standpoint of the oral interpreter. Special emphasis on the modern period from Ibsen and Chekov to the present. Prereq., Speech 34, 303, or Dram. Art 339.

349. RHETORICAL CRITICISM (3) Watkins

Theories and critical methods of Plutarch, Cicero, Goodrich, Brougham and selected modern writers. Application through original critiques of selected speeches. Prereq., 12 hrs., including 309, or equivalent.

401. INTRODUCTION TO GRADUATE WORK (3) Kantner

Men, movements, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

412. ADVANCED SPEECH COMPOSITION AND DELIVERY (3) Staats

Advanced study of content, organization, composition and delivery of lecture-length speeches. Prereq., 112, 309, or equivalent.

440. APPLICATIONS OF GENERAL SEMANTICS TO SPEECH (3) Wiseman

The chief formulations from general semantics which underlie the synthesis of communication methodologies and personal integration through communication will be presented. Special emphasis on the application of these principles to the field of speech. Prereq., 10 hours of speech or permission.

462. SPEECH AND HIGHER EDUCATION (3) Andersch

Philosophy and function of speech as an academic discipline, relationships to other areas of study, inter-relationships of various areas within the field, problems in the teaching of speech at the college level. Required of all graduate students in speech. Prereq., 18 hrs.

471. AMERICAN PUBLIC ADDRESS (3) Staats

The history of public address in America from colonial times to the present. Analysis of selected speeches. Practice in the organization, composition and delivery of speeches of substantial length. Prereq., 112, F. A. 203-204 or equivalent.

472. BRITISH AND FRENCH PUBLIC ADDRESS (3) Watkins

A study of the pulpit and political orators of the French revolutionary period and the British parliamentary orators of the 18th and early 19th centuries. Prereq., 309 or equivalent.

475. GREEK, ROMAN AND PATRISTIC PUBLIC ADDRESS (3) Staats

Historical and cultural aspects of public address in the Greek, Roman and Patristic periods. Outstanding speakers and speeches of each period analyzed in terms of the issues of the time. Prereq., A knowledge of the history of the periods studied is essential. F. A. 203-204, speech 309, Hist. 115 or 120 or equivalent.

485. CONTEMPORARY STUDIES IN PUBLIC ADDRESS (3) Ludlum

Review of selected studies in public address and communication emphasizing the experimental and descriptive methods and the more significant findings of contemporary research. Prereq., 12 hrs., 401.

490. SEMINAR IN PUBLIC ADDRESS (3) Staats, Wiseman

Advanced study in the history of public address, rhetorical theory, or rhetorical criticism and speech analysis. Class discussions and reports. Prereq., 309 or 471, or equivalent.

491. SEMINAR IN SPEECH EDUCATION (2 or 3) Andersch
Problems in the teaching of basic speech courses at the college level, evolution of the speech curriculum. Assigned problems. Prereq., 15 hrs.
494. RESEARCH (1-12) Staff
Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.
495. THESIS (1 to 6) Staff
Prereq., permission.
Additional course: F.A. 203-204—History of Oratory.
See also courses listed under Dramatic Art on page 196 and Radio-TV on page 280.

SPEECH AND HEARING THERAPY

4. REMEDIAL SPEECH (1 to 2) LaFollette, Staff
The Speech and Hearing Clinic is equipped and staffed to aid students in overcoming special speech problems. Instruction and supervised remedial practice are offered for individuals and small groups. Enrollment with permission at any time up to four weeks prior to the end of the semester. Not to be counted in hours for graduation.
194. SPEECH CORRECTION FOR THE CLASSROOM TEACHER (3) Boros
Nature, causes, and treatment of defective speech in the public schools with special reference to the role of the regular classroom teacher. Open to majors in elementary education; others by permission. Not open to majors in dramatic art and speech.
195. PRINCIPLES OF SPEECH CORRECTION (3) Ham
The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Emphasis on methods and techniques in the correction of common speech defects. Prereq., 6 hrs., Psych. 1 or 5, or permission.
247. CLINICAL PRACTICE IN SPEECH CORRECTION (1 or 2) LaFollette, Penson, Ham
Supervised clinical practice with children or adults in the University Speech and Hearing Clinic. Maximum credit in course, 4 hrs. Prereq., 307, 310, 320, permission.
262. SPEECH AND HEARING THERAPY IN PUBLIC SCHOOLS (2) Ham, Boros
Methods, organization, and implementation of speech and hearing programs in the public schools. Must be taken concurrently with Student Teaching. Prereq., 307.
307. CLINICAL METHODS (3) Ham
Basic orientation to speech therapy. Observation of children with normal and defective speech. Clinical work in the school situation and in the Children's Speech Clinic. Prereq., 6 hrs., including 195.
310. SPEECH PATHOLOGY (3) LaFollette
Anatomy of the vocal mechanism and study of organic speech disorders, such as stuttering, aphasia, cleft, palate speech, spastic speech, and speech of the hard of hearing. Prereq., 195.
312. PHONETICS (3) Kantner
The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Prereq., 6 hrs. or permission.

319. AUDIOMETRY AND SPEECH AND HEARING PROBLEMS (3) LaFollette

Techniques of audiometric testing with clinical practice; interpretation of audiograms, criteria for educational placement and referral; principles of hearing aid selection; public school hearing conservation programs. Prereq., 6 hrs., or equivalent of 6 hrs., and permission.

320. ADVANCED CLINICAL METHODS (3) LaFollette

Methods in speech correction for adults; survey of current literature; clinical experience with adults in such problems as articulatory disorders, stuttering, aphasia, cerebral palsy, cleft palate and loss of hearing. Prereq., 10 hrs., including 310.

323. LIP READING (3) LaFollette

The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.

335. DIAGNOSTIC PROCEDURES IN SPEECH AND HEARING THERAPY (3) Ham

The role of diagnosis in speech and hearing therapy; conducting the speech examination; the nature, purpose, administration and interpretation of the more important diagnostic tests and procedures related to the speech problem. Preparation of the case history. Prereq., 320 or with 320.

345. STUTTERING AND PSYCHOGENETIC DISORDERS OF SPEECH (3) Penson

A detailed study of literature in the field with emphasis on the nature, causes, development, and treatment of stuttering and other speech defects with psychogenic implications. Extensive case studies. Prereq., senior majors, 310, 320 or with 320.

392. SPEECH SCIENCE (3) Penson

Structure and function of the mechanism for speech and hearing. Anatomical, physiological and neurological considerations. Laboratory projects. Prereq., senior majors or graduate students.

405. CLINICAL PROGRAMS IN SPEECH AND HEARING THERAPY (3) LaFollette

Organization and administration of clinical programs in speech and hearing therapy. Administrative structures, services, professional standards and underlying philosophies in speech and hearing clinics, both public and private. Prereq., 310, 319, 320.

455. LANGUAGE FOR THE DEAF AND HARD OF HEARING (3) LaFollette

Stage by stage instruction for the teaching of speech to deaf and hard of hearing children of all ages. Consideration of basic problems, specific techniques and special equipment. Students with severe hearing losses may audit this course by special permission without the prerequisites. Prereq., 307, 319 323 or equivalent.

465. LANGUAGE PROBLEMS OF THE BRAIN INJURED (3) Ham

Consideration of the neurological basis, pathological causes and speech and psychological implications of cerebral palsy, aphasia, and other types of brain injury, together with methods of therapy. Prereq., 310, 320, 392, or with 392.

476. RESEARCH DESIGN IN SPEECH SCIENCE (3) Penson

Scope and philosophy of speech science. Instrumentation, research designs, areas of research and significant findings in selected contemporary studies. Group or individual research projects in speech pathology, audiology and phonetics. Prereq., 392.

492. SEMINAR IN SPEECH CORRECTION (3) Penson, LaFollette

Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hrs., including 195.

494. RESEARCH (1-12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission, 8 hrs.

495. THESIS OR DISSERTATION (1 to 6 for thesis) Staff

Prereq., permission.

See also courses listed under Dramatic Art on page 196 and Radio-TV on page 280.

STATISTICS

Associate Professor Soltow (chairman)

155. BUSINESS STATISTICS (4) Soltow

Elementary statistical methods used in business. 3 lec. and 3-hour lab. Prereq., Ec. 12 or 102 and Math. 3 and 34 or Math. 5 and 6.

271. ANALYSIS OF STATISTICAL DATA (3) Soltow

Study of reports and forecasts of business firms, bureaus, and agencies. Application of statistical methods of specific problems. Prereq., 155.

303. VARIABLES (3) Staff

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155.

341. BUSINESS CYCLES (3) Staff

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155 or with 155.

345. FORECASTING (3) Staff

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 155 or with 155.

381. RESEARCH IN BUSINESS STATISTICS (1 to 8) Staff

Prereq., 18 hrs. commerce including 155 and permission.

391. SEMINAR IN BUSINESS STATISTICS (2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 155 and permission.

Additional course: Math. 326—Theory of Statistics.

ZOOLOGY

Professors Elliott, Frey (chairman), Stehr
 Associate Professors Rowles, Seibert, Lawrence
 Assistant Professors McQuate, Southwick, W. Peterson, Vallowe
 Instructor Tullis

The major requirement for the A.B. degree is a minimum of 24 hours in approved departmental courses; for the B.S. degree, a minimum of 24 to 30 hours. These courses must include Zool. 3-4, 107, 120 or 121, 235 or 305. In addition, the following extra-departmental courses are required: Chem. 1-2 or 3-4, Math. 5 or 9, or 107 (medical technology majors have no requirement in mathematics), Phil. 110 or 209 or other approved course in philosophy. Premedical students are urged to elect Math. 9 and 10 (see page 107) and to include these courses as part of the freshman program. Students who substitute a year in medical or dental school for the senior year are credited with 8 hours on the major for the A.B. degree and 10 hours on the B.S. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B.S. degree.

Curricula are outlined by the College of Arts and Sciences for students preparing for medicine, dentistry, physical therapy, and medical technology (see pages 107, 104, 111 and 106). Students who wish to teach and to complete requirements for the A.B. or B.S. degrees with a major in zoology, may meet requirements for certification for teaching.

3. PRINCIPLES OF ZOOLOGY**(3) Staff**

Elementary physiology and anatomy of a living organism to illustrate principles of life: metabolism, growth, reproduction, and heredity. 2 lec. and 2 lab. (Each semester). No credit if student has had Biol. 1, 2.

4. PRINCIPLES OF ZOOLOGY**(3) Staff**

A survey of the important animal phyla to illustrate major biological principles; the relationships of animals and their environment; the doctrine of evolution as the underlying principle. 2 lec. and 2 lab. Pre-req., 3. (Each semester.) No credit if student has had Biol. 1, 2.

103. READINGS IN BIOLOGY**(1) Stehr**

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Pre-req., 4, or Biol. 2, or high school biology. (Each semester.)

107. PRINCIPLES OF HEREDITY**(3) McQuate, Tullis**

An introduction to the fundamental principles of heredity and variation. Practical applications to animal and plant breeding, human heredity, and race betterment. Pre-req., 4, or Biol. 2, or 6 hrs. botany (1st sem., yearly.)

108. ELEMENTARY LABORATORY GENETICS**(2) McQuate, Tullis**

Breeding experiments primarily with *Drosophila* designed to illustrate the principles of heredity. 4 lab. Pre-req., 107. (2nd sem., yearly.)

113. BIOLOGY OF VERTEBRATES**(4) Seibert**

A study of vertebrate animals, other than birds, including classification, life histories, and other pertinent topics. Identification of museum collection with emphasis on Ohio specimens; collecting and preserving techniques; field work. 2 lec., 4 lab., and field work. Pre-req., 4. (1st sem., yearly.)

118. ORNITHOLOGY**(3) Seibert**

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories, and economic values. Emphasis on field identification. 2 lec. and 2 lab., or field work. Prereq., 4, or Biol. 2. (2nd sem., yearly.)

120. COMPARATIVE VERTEBRATE ANATOMY**(4) Elliott**

A comparative study of body systems of vertebrates, with laboratory work covering various type forms. 2 lec. and 4 lab. Prereq., 4. (2nd sem., yearly.)

121. ELEMENTS OF ANATOMY**(3) Southwick**

Course for majors in zoology other than premedical and predental students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the mammal. Illustrated by dissection of a cat. 2 lec. and 2 lab. Prereq., 4. (1st sem., yearly.)

133-134. ANATOMY, KINESIOLOGY, AND PHYSIOLOGY**(4-4) Rowles, Vallowe, Trepp**

(Same as P.E. 133-134) Course for majors in physical education and athletics. All body systems are studied with particular emphasis on the skeleton, joints, and muscles, including physiology of exercise and muscular movements of body. Prereq., 3. (Yearly.)

216. ANIMAL COMMUNITIES**(4) Seibert**

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec. and 4 lab. or field work. Prereq., 4. (2nd sem., yearly.)

219. GENERAL ENTOMOLOGY**(4) Stehr**

A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Prereq., 4. (1st sem., yearly.)

225. ANIMAL MICROTECHNIC**(1 or 2) Peterson**

The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Prereq., 4, junior or senior rank. (1st sem., yearly.)

235. ELEMENTS OF PHYSIOLOGY**(4) Rowles**

Functions of various tissues and organs of mammals as applied particularly to the human organism. Recommended for home economics majors and zoology majors other than premedical and predental students. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. (2nd sem., yearly.)

241. ELEMENTARY BACTERIOLOGY**(4) Lawrence**

Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 311. 2 lec. and 4 lab. Prereq., 4 or Biol. 2, or 6 hrs. botany or 8 hrs. chemistry. (Each semester.)

245. CLINICAL TECHNIC**(2) Frey**

The theory and practice of making various tests used in laboratories of clinical pathology with emphasis on hematology. Prereq., 311 and permission. (Each semester.)

301. MAMMALIAN ANATOMY**(4) Elliott**

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 120. (1st sem., yearly.)

302. VERTEBRATE EMBRYOLOGY**(4) Peterson**

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and pig. 2 lec. and 6 lab. Prereq., 120. (2nd sem., yearly.)

304. HISTOLOGY**(4) Southwick**

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec. and 4 lab. Prereq., 120 or 121. (2nd sem., yearly.)

305. PRINCIPLES OF PHYSIOLOGY**(4) Rowles**

Physio-chemical composition of living material; properties of solutions, membranes and enzymes; physiology of various body systems. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 120 or 121, Chem. 2 or 4. Organic chemistry valuable. (1st sem., yearly.)

308. PHYSIOLOGY OF EXERCISE**(2) Rowles**

An analysis of the manner in which the various organs of the body meet the requirements of physical activity as related to oxygen debt, fatigue, efficiency, diet, age, sex, body type, race, altitude, and environmental temperature. Course designed for majors and graduate students in physiology, physical education and athletics. Prereq., Zool. 134, or 120 or 121 and 235 or 305. (2nd sem., yearly.)

309. BIOLOGICAL CHEMISTRY**(4) Rowles**

Introduction to physical chemistry of true and colloidal solutions; principles of enzyme action; chemistry of and tests for: carbohydrates, proteins, fats; digestion and metabolism; chemical analysis of: blood, bile, milk, urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology, Chem. 113 and 117. (1st sem., yearly.)

311. GENERAL BACTERIOLOGY**(4) Frey**

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 113 or 201. (Each semester.)

312. PATHOGENIC BACTERIOLOGY**(4) Lawrence**

Microorganisms in relation to diseases. A study of disease manifestations, methods of transmission, means of protection and immunity. 2 lec. and 4 lab. Prereq., 311. (1st sem., yearly.)

314. MICROBIOLOGICAL TECHNICS**(2) Frey, Lawrence**

A practical course designed to give the student extensive experience in the use of bacteriological technics and equipment. 4 lab. Prereq., 311 or 241 and organic chemistry. (1st sem., yearly.)

316. ANIMAL PARASITES**(4) Lawrence**

A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, and means of prevention. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. (2nd sem., yearly.)

317. ADVANCED GENERAL BACTERIOLOGY**(4) Lawrence**

A study of bacteria as living systems. Subjects considered will include: growth requirements, enzyme systems, intermediary and end products formed, influence of environmental factors and bacterial taxonomy. 2 lec. and 4 lab. Prereq., 311 or 241 and organic chemistry. (2nd sem., yearly.)

320. ADVANCED ENTOMOLOGY

(4) Stehr

Study of insect morphology and the principles of insect classification and identification, with emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 219. (2nd sem., 1958-59.)

325-326. INVERTEBRATE ZOOLOGY

(4-4) Stehr

A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. (1959-60.)

327. ANIMAL ECOLOGY

(4) Seibert

A study of the effect of environment on animals; the role of temperature, moisture, gases, photoperiod, metabolism, osmotic regulation on ecological distribution; physiological and structural adaptations. Experimental methods in field and laboratory. 2 lec. and 4 lab. or field work. Prereq., 216. (1st sem. 1959-60.)

343. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following areas)

Semi-independent studies under the guidance of the instructor. Maximum credit in any one area, 8 hrs. Prereq., 10 hrs. and permission.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Lawrence.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Seibert, Southwick, Stehr.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis and library work in the field of heredity. McQuate, Tullis.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Peterson, Stehr.
- f. Parasitology—animal parasites. Lawrence, Peterson.
- g. Physiological Zoology—physiological and related experimental studies. Vallowe, Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Stehr.
- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott, Peterson.
- k. Vertebrate Zoology—classification, life history studies. Seibert, Vallowe.

413. BACTERIOLOGICAL REVIEW

(2) Frey

An advanced theoretical course in bacteriology. Special reference is made to dissociation, bacterial growth curves, anaerobiasis, oxidation and reduction, and bacterial metabolism. Prereq., 12 hrs. bacteriology and permission. (Given upon sufficient demand.)

415. PHYSIOLOGICAL REVIEWS

(2) Rowles

An advanced lecture and conference course, involving literature review in various specialized phases of physiology and biological chemistry. Prereq., 8 hours of physiology and biological chemistry and permission. (Given upon sufficient demand.)

485. RESEARCH IN BIOLOGY**(1 to 4) Staff**

Research work in all areas listed under 343. This course fulfills the thesis requirement. Maximum credit in course, 4 hrs. Prereq., 20 hrs. and permission.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff: H. B. Davidson, M. D. Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum on page 106.

291. URINALYSIS**Four weeks (3)**

The physical, chemical, and microscopic study of urine.

292. HEMATOLOGY**Eight weeks (5)**

Total red and white blood counts, hemoglobin determinations, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

293. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY**Eight weeks (11)**

Review of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of types of bacteria; methods in which blood serum can be used in recognition and diagnosis of disease; review of parasites pathogenic to man; methods of examining feces; microscopic and bacteriologic study of sputum.

294. CHEMISTRY**Thirteen weeks (8)**

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

295. HISTOLOGIC TECHNIC**Six weeks (4)**

Review of fundamental procedures in the preparation of tissue for microscopic examination; study of special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

296. BASAL METABOLISM AND ELECTROCARDIOGRAPHY**Two weeks (1)**

Study of the methods of determining the basal metabolic rate, a study of the electrocardiograph and methods of taking electrocardiographic tracings.

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